SmartPractice Denmark ApS HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use T.R.U.E. TEST safely and effectively. See full prescribing information for T.R.U.E. TEST. T.R.U.E. TEST Thin-Layer Rapid Use Epicutaneous Patch Test For Topical Use Only Initial U.S. Approval: 1994 -----RECENT MAJOR CHANGES ------Indications and Usage (1) 08/2017INDICATIONS AND USAGE..... T.R.U.E. TEST is an epicutaneous patch test indicated for use as an aid in the diagnosis of allergic contact dermatitis in persons 6 years of age and older whose history suggests sensitivity to one or more of the 35 allergens and allergen mixes included on the T.R.U.E. TEST panels. (1) DOSAGE AND ADMINISTRATION • For topical use only. Apply the three adhesive panels of allergens and allergen mixes on healthy skin of the back, Remove panels and evaluate the skin 48 hours after application. Re-evaluate the skin 72 to 96 hours after application. (2) ------ DOSAGE FORMS AND STRENGTHS ------Three adhesive panels consisting of 35 allergens and allergen mix patches and a negative control. Panel 1.3 contains 11 allergens and allergen mixes and a negative control. Panel 2.3 contains 12 allergens and allergen mixes. Panel 3.3 contains 12 allergens and allergen mixes. (3) ------CONTRAINDICATIONS • Do not apply to skin of patients with a history of severe allergic reaction (systemic and/or local) to any of the allergen components or inactive substances of T.R.U.E. TEST. (4) • Do not apply to skin that is injured or inflamed. (4) ------WARNINGS AND PRECAUTIONS ------• Acute allergic reactions, including anaphylaxis, may occur. (5.1) • Sensitization to one or more of the allergens may occur with initial or repeat testing. (5.2, 5.9) • Extreme positive reactions, excited skin syndrome, tape reactions, irritant contact dermatitis, persistent reactions, and late reactions at the test site may occur. (5.3, 5.4, 5.5, 5.6, 5.7, 5.8) ----- ADVERSE REACTIONS • In adults 18 years of age and older, the most common (occurring in >1% of the study population) adverse reactions were burning (25.4%), tape irritation (15.8%), persistent reactions (6.8%), erythema (5.7%), and hyper/hypopigmentation (4.9%). • In children and adolescents 6 through 17 years of age, the most common (occurring in >1% of the study population) adverse reactions were itching (up to 61.2%), tape irritation (up to 50.0%), persistent reactions (4.6%), ectopic flare of pre-existing dermatitis (12.8%), burning (up to 10.5%), skin infections (1.8%), and skin reactions near a panel site (1.4%). To report SUSPECTED ADVERSE REACTIONS, contact SmartPractice at 1-800-878-3837 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch. ------ DRUG INTERACTIONS ------Patients on systemic or topical immunosuppressant therapy may have a diminished reaction to T.R.U.E. TEST. (7) See 17 for PATIENT COUNSELING INFORMATION.

Revised: 8/2017

T.R.U.E. TEST THIN-LAYER RAPID USE PATCH TEST- standardized allergenic

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FULL PRESCRIBING INFORMATION

For topical use only.

1 INDICATIONS AND USAGE

T.R.U.E. TEST® is an epicutaneous patch test indicated for use as an aid in the diagnosis of allergic contact dermatitis (ACD) in persons 6 years of age and older whose history suggests sensitivity to one or more of the 35 allergens and allergen mixes included on the T.R.U.E. TEST panels.

2 DOSAGE AND ADMINISTRATION

2.1 Dose

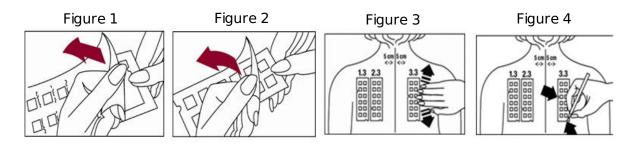
T.R.U.E. TEST contains three adhesive panels consisting of 35 allergen and allergen mix patches and a negative control. See *Description (11)* for allergen types and amounts.

2.2 Administration

Application Instructions

T.R.U.E. TEST should only be applied to healthy skin. Test sites should be free of scars, acne, dermatitis, or other conditions that may interfere with test result interpretation. Avoid application of T.R.U.E. TEST panels to recently tanned or sun-exposed skin because this may increase the risk of false negatives. Avoid patch testing on patients for three (3) weeks after ultraviolet (UV) treatments, heavy sun, or tanning bed exposure. Avoid using alcohol or other irritating substances on the skin prior to testing. Avoid excessive sweating during the testing period to maintain sufficient adhesion to the skin. Avoid excessive physical activity to maintain sufficient adhesion and to prevent actual loss of patch test material. Avoid getting the panels and surrounding area wet. If excessive body hair exists at the test site, remove with an electric shaver (do not use razors). Very oily skin may be cleaned with mild soap and water prior to testing.

T.R.U.E. Test panels should be applied as follows:



- 1. Peel open the package and remove the test panel (Figure 1).
- 2. Remove the protective plastic covering from the test surface of the panel (Figure 2). Be careful not to touch the test allergens or allergen mixes.
- 3. Position test Panel 1.3 on the patient's back as shown in Figure 3. Allergen number 1 should be in the upper left corner. Avoid applying the panel on the margin of the scapula or directly over the midline of the spine. Ensure that each patch of the allergen panel is in contact with the skin by smoothing the panel outward from the center to the edge (as illustrated for Panel 3.3 in Figure 3).
- 4. With a medical marking pen, indicate on the skin the location of the two notches on the panel (as illustrated for Panel 3.3 in Figure 4).
- 5. Repeat the process with test Panel 2.3. Position the test Panel 2.3 beside Panel 1.3, on the left side of the patient's back so that the number 13 allergen is in the upper left corner. Apply test Panel 2.3 five (5) cm from the midline of the spine (Figure 3).
- 6. Repeat the process with Panel 3.3 positioning the panel on the right side of the patient's back so that the number 25 allergen is in the upper left corner. Apply test Panel 3.3 five (5) cm from the midline of the spine. (Figure 3)
- 7. If needed, hypoallergenic surgical tape, appropriate for patch testing, may be used for increased adhesion around the outside edges of the panels.

2.3 Timing of Test Readings

Schedule patients to return approximately 48 hours after patch test application to have

the panels removed. Prior to removal of the panels, use a medical marking pen to remark the notches found on the panels. The patch test reaction on the patient's skin may be evaluated at 48 hours, but an additional reading(s) at 72 and/or 96 hours is necessary. Late positive reactions may occur 7 to 21 days after application of the panels. [see *Warnings and Precautions* (5.2)].

2.4 Interpretation Instructions

An identification template is provided for each of the three (3) panels for quick identification of any allergen that causes a reaction. To assure correct positioning, marks on the skin made with the medical marking pen should correlate with the notches on the template. The interpretation method, similar to the one recommended by the International Contact Dermatitis Research Group, is as follows:

- ? Doubtful reaction: faint macular erythema only
 - Weak positive reaction: non-
- + vesicular with erythema, infiltration, possibly papules
- ++ Strong positive reaction: vesicular, erythema, infiltration, papules
- +++ Extreme positive reaction: bullous or
- ulcerative reaction
- Negative reaction

 Irritant reaction: Pustules as well as patchy follicular or homogeneous
- IR erythema without infiltrations are usually signs of irritation and do not indicate allergy.

Itching is a subjective symptom that is expected to accompany a positive reaction.

False Negatives

False negative results may be due to insufficient patch contact with the skin and/or premature evaluation of the test. Repeat testing may be indicated. The effect of repetitive testing with T.R.U.E. TEST is unknown [see *Warnings and Precautions (5.9)*].

False Positives

A false positive result may occur when an irritant reaction cannot be differentiated from an allergic reaction. A positive test reaction should meet the criteria for an allergic reaction. If an irritant reaction cannot be distinguished from a true positive reaction or if a doubtful reaction is present, a retest may be considered. The effect of repetitive testing with T.R.U.E. TEST is unknown [see *Warnings and Precautions (5.9)*].

3 DOSAGE FORMS AND STRENGTHS

T.R.U.E. TEST contains three (3) adhesive panels consisting of 35 allergen and allergen mix patches and a negative control. Panel 1.3 contains 11 allergens and allergen mixes and a negative control. Panel 2.3 contains 12 allergens and allergen mixes. Panel 3.3 contains 12 allergens and allergen mixes. See *Description (11)* for allergen types and amounts.

4 CONTRAINDICATIONS

Do not apply to skin of patients with a history of severe allergic reaction (systemic and/or local) to any of the allergen components or inactive substances of T.R.U.E. TEST [see *Description (11)*].

Do not apply to skin that is injured or inflamed.

5 WARNINGS AND PRECAUTIONS

5.1 Acute Allergic Reactions

Acute allergic reactions, including anaphylaxis, may occur following the application of T.R.U.E. TEST. If a severe allergic reaction occurs, remove the T.R.U.E. TEST panel(s) and initiate appropriate medical treatment. Immediate contact urticaria may present within minutes to an hour after application in patients who are pre-sensitized to some allergens and may be local or generalized. Patients may be advised to remove the panels themselves if they experience systemic symptoms [see *Patient Counseling Information (17)*].

5.2 Sensitization

A negative patch test reaction, followed by a positive reaction 10 to 20 days after panel application, may indicate active sensitization. Active sensitization is confirmed upon retesting with a positive reaction occurring at the 72 and/or the 96 hour reading. If patients undergo a second series of patch tests immediately, select a new test site for T.R.U.E. TEST application. Alternatively, the same site may be retested after a 3-week clearing period, provided the site remains free of conditions that might affect test results [see *Dosage and Administration (2.1)*]. The safety and effectiveness of repetitive testing with T.R.U.E. TEST is unknown [see *Warnings and Precautions (5.9)*].

5.3 Extreme Positive Reactions

Extreme positive (+++) reactions that are bullous or ulcerative with pronounced erythema, infiltration, and coalescing vesicles may present in extremely sensitive patients [see *Dosage and Administration* (2.3)].

5.4 Excited Skin Syndrome (Angry Back)

Excited skin syndrome is a regional state of skin hyper-reactivity caused by the presence of a strong positive reaction which may result in other patch test sites to become reactive.

5.5 Tape Reactions

Reactions to the T.R.U.E. TEST tape or adhesive may occur. T.R.U.E. TEST panel tape and the individual patches are composed of polyester. The adhesive used in the panels is acrylate-based and processed to remove free monomers that may be allergenic [see *Description (11)*].

5.6 Irritant Contact Dermatitis

Patients may experience irritant contact dermatitis upon exposure to any of the allergens contained within T.R.U.E. TEST that cause direct damage to the skin at the test site. Recurrence of an irritant response is not limited to exposure to the specific allergens or allergen mixes, but may follow exposure to any chemical irritants.

5.7 Persistent Reactions

Positive reactions may persist from 7 days to months after panel application.

5.8 Late Reactions

Positive reactions may occur 7 to 21 days after application of the panels.

5.9 Repeat Testing

The safety and efficacy of repetitive testing with T.R.U.E. TEST is unknown. Sensitization

or increased reactivity to one or more of the allergens may occur [see *Warnings and Precautions (5.2)*]. If patients undergo a second series of patch tests immediately, select a new test site for T.R.U.E. TEST application. Alternatively, the same site may be retested after a 3-week clearing period, provided the site remains free of conditions that might affect test results. [see *Dosage and Administration (2.1)*].

6 ADVERSE REACTIONS

In adults 18 years of age and older, the most common (occurring in >1% of the study population) adverse reactions were burning (25.4%), tape irritation (15.8%), persistent reactions (6.8%), erythema (5.7%), and hyper/hypopigmentation (4.9%). In children and adolescents 6 through 17 years of age, the most common (occurring in >1% of the study population) adverse reactions were itching (up to 61.2%), tape irritation (up to 50.0%), persistent reactions (4.6%), ectopic flare of pre-existing dermatitis (12.8%), burning (up to 10.5%), skin infections (1.8%), and skin reactions near a panel site (1.4%).

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug may not reflect the rates observed in clinical practice.

Adult Subjects 18 Years of Age and Older

Table 1 presents a summary of ten clinical trials conducted in adults in North America and Europe using T.R.U.E. TEST.

Table 1- Overview of Clinical Studies using T.R.U.E. TEST Among Adults 18 Years of Age and Older

Clinia	al Chudu Ouamdau	Study										
Clinic	al Study Overview	1	2	3	4	5	6	7	8	9	10	iotai
N		127	121	119	50	130	128	200	235	49	9	1168
Ag	ge Range (years)	19-79	18-77	19-76	19-82	19-86	20-83	19-78	18-85	18-68	36-76	18- 86
!	Sex (% female)	68%	68%	73%	72%	68%	63%	59%	71%	98%	78%	69%
Ethnicity	Caucasian	86%	88%	83%	92%	85%	88%	97%	91%	98%	100%	83%
	Black	9%	12%	11%	4%	13%	12%	0%	5%	0%	0%	9%
	Other	5%	1%	6%	4%	2%	0.8%	3%	4%	2%	0%	7%
Allergens	Nickel sulfate	Х		Х	Х					Х		
	Wool alcohols		Х	Х	Х							
	Neomycin sulfate	Х		Х	Х					Х		
	Potassium dichromate	Х		Х	Х					Х		
	Caine Mix	Х		Χ	Χ					Х		
	Fragrance Mix	Х		Х	Х					Х		
	Colophony	Х		Х	Х					Х		
	Paraben Mix		Х	Х	Х							
	Balsam of Peru	Х		Х	Х					Х		
	Ethylenediamine dihydrochloride	Х		Х	Х					Х		
	Cobalt dichloride	Х		Х	Х					Х		
	p-tert-Butylphenol formaldehyde resin		Х	Х	Х							
	Epoxy resin	Х		Х	Х					Х		
	Carba mix		Х	Х	Х							
	Black rubber mix		Х	Х	Х							

Cl+ Me- Isothiazolinone		Х	Х	Х							
Quaternium-15		Х	Х	Х						Х	
Methyldibromo glutaronitrile								Х			
p-Phenylenediamine	Χ		Х	Х					Х		
Formaldehyde			Х	Х							
Mercapto Mix		Х	Х	Х							
Thimerosal		Χ	Х	Х							
Thiuram Mix	Χ		Х	Х					Х		
Diazolidinyl urea					Х						
Quinoline Mix		Х	Х	Х							
Tixocortol-21-pivalate						Х	Х				
Gold Sodium Thiosulfate								Х			
Imidazolidinyl urea					Х						
Budesonide						Х	Х				
Hydrocortisone-17- butyrate							Х	Х			
Mercaptobenzothiazole		Х	Х	Х							
Bacitracin								Х			
Parthenolide								Х			
Disperse blue 106								Х			
Bronopol								Х			

Table 2 summarizes the adverse reactions recorded in ten clinical studies. Subjects' adverse reactions were recorded on case report forms by study personnel. Adverse reactions were recorded during subject follow-up visits, which varied between 24 and/or 96 hours and/or Day 21 [see *Clinical Studies (14)*].

Table 2- Summary of Adverse Reactions Reported Among Adult Subjects 18 Years of Age and Older

	_		_	_	_	Study		_	_	_	
NI NI	127	121	110	4	5	120	7	8	9	10	(%)
N	127	121	119	50	130	128	200	235	49	9	1168
Burning *	12	6	9	16	50	51	25	123	5	0	297 (25.4)
Tape Irritation *	4	0	2	1	22	51	25	79	0	0	184 (15.8)
Persistent Reactions †	11	0	0	8	2	16	1	41	0	0	79 (6.8)
Erythema [†]	0	3	27 [‡]	2	0	3	0	32	0	0	67 (5.7)
Hyper/Hypopigmentation †	11	2	8 ‡	6	1	7	0	14	8	0	57 (4.9)
Sensitization (possible) †	0	2	5 ‡	1	0	0	0	ND	ND	ND	8 (0.9) §
Late Reaction [†]	0	0	0	1	0	0	0	7	0	0	8 (0.7)
Scarring [†]	0	0	2 ‡	ND	ND	ND	ND	ND	ND	ND	2 (0.5) §
Fotonic Flare †	ND	ND	ND	ND	1	Λ	1	ND	ИD	ND	2(0.4)

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ND=Not Done

- * Reported at 48 hours
- † Reported during follow up visit at Day 21
- ‡ Reported during follow up (4 to 80 days).
- § n and % are based on the N of the studies where this data was collected.

<u>Panel Adhesion:</u> Problems with panel adhesion were observed during some of the clinical studies. Poor panel adhesion was defined as any panel that fell off prior to the 48-hour removal time, any test panel that was not in good contact with the skin, or if one or more of the patch test allergens were not in good contact with the skin as evidenced at the time of panel removal, 48 hours. If the panel fell off the back prior to the 48-hour removal time frame, the subject was excluded from the efficacy calculations (sensitivity and specificity) but not from the safety analysis. Over all studies, poor panel adhesion occurred 49 times (4.2%) (Table 3). In study 2, the poor adhesion was attributed to the particular lot of adhesive used to manufacture the clinical test tape.

Table 3- Incidence and Proportion of Poor Panel Adhesion Among Subjects 18
Years of Age and Older

	Study 1	Study 2	Study 3	Study 4	Study 5	Study 6	Study 7	Study 8	Study 9	Study 10	Total
N	127	121	119	50	130	128	200	235	49	9	1168
Poor Adhesion (%)	0 (0.0)	14 (11.6)	2 (1.7)	5 (10.0)	1 (0.8)	1 (0.8)	0 (0.0)	10 (4.3)	12 (23.5)	0 (0.0)	49 (4.2)

Children and Adolescents 6 through 17 Years of Age

The safety of T.R.U.E. TEST in children and adolescents 6 through 17 years of age was evaluated in two open-label studies conducted in the US. In these studies, children and adolescents with suspected allergic contact dermatitis had three T.R.U.E. TEST panels applied to their backs and upper arms by investigators. Some of the panels were from previously approved versions of T.R.U.E. TEST. Subjects were instructed to keep the panels in place for 48 hours. Subjects were monitored for safety for 21 days after application of T.R.U.E. TEST panels. The safety monitoring plan included investigator's assessment of panel adhesion, tape irritation, and participant reporting of burning and itching (as a combined symptom) when panels were removed 2 days after application of T.R.U.E. TEST. Surveillance for late reactions, possible sensitization and persistent reactions occurred at Day 7 and 21. Unsolicited adverse events, serious adverse events and deaths were monitored for 21 days after patch application.

Pediatric Study 1 (NCT: 00795951)

In this prospective, single-center, open label study, 102 subjects were enrolled to evaluate the safety of T.R.U.E. TEST [see *Clinical Studies (14.2) Table 7* for a list of the allergens and allergen mixes]. Of enrolled subjects, 52% were female, 39.2% were White, 31.4% were Hispanic, 6.9% were Black, 12.7% were Asian and 10.5% were of other racial/ethnic groups. The mean age of subjects was 11.6 years.

Pediatric Study 2 (NCT: 01797562)

In a prospective, multi-center, open-label study conducted in the US, up to 116 children and adolescents were enrolled to evaluate the safety of T.R.U.E. TEST [see *Clinical Studies (14.2) Table 7* for a list of the allergens and allergen mixes]. Of enrolled subjects, 69% were female, 37.9% were Hispanic or Latino, 28.5% were White, 11.2% were Asian, 6.0% were Black, and 16.4% were of other racial/ethnic groups. The mean age of subjects was 12.6 years. Table 4 summarizes adverse reactions occurring within 21 days after T.R.U.E. TEST application.

Table 4: Pediatric Study 2 *: Adverse Reactions Occurring 2 Days after T.R.U.E. TEST Application in Children and Adolescents 6 through 17 Years of Age

Adverse Reactions		Any n (%)		Severe n (%)			
	Panel 1.3 N=54 †	2.3	3.3	1.3	Panel 2.3 N=114	Panel 3.3 N=114	
Itching §	31 (57.4)	62 (54.4)	72 (63.2)	1 (1.9)	7 (6.1)	11 (9.7)	
Burning §	3 (5.6)	7 (6.1)	12 (10.5)	0 (0.0)	0 (0.0)	1 (0.9)	
Tape irritation ¶	27 (50.0)	56 (49.1)	53 (46.5)	0 (0.0)	1 (0.9)	0 (0.0)	

^{*} NCT: 01797562

- † Fifty five subjects received Panel 1.3 and 61 subjects received Panel 1.2, which included 4 allergens with outdated formulations. Fifty four of the 55 subjects presented on day 2 as scheduled.
- ‡ Of the 116 subjects who received T.R.U.E. TEST, 114 presented to visit 2 and had itching, burning, and tape irritation data documented.
- § Itching and burning were graded as none, mild/weak (minimal discomfort), moderate (definite discomfort), or severe (significantly bothersome, possible interference with sleep or daily activity).
- ¶ Tape irritation was graded at Day 2 by investigators using a 4-point scale, including none, weak (faint to definite pink erythema), moderate (moderate erythema, definite redness), or severe (severe erythema, very intense redness).

Across both pediatric studies (N=218), extreme positive reactions (+++, indicating a bullous or ulcerative reaction with pronounced erythema, infiltration, and coalescing vesicles) occurred in two subjects. Both extreme positive reactions occurred in response to metal allergens (nickel sulfate and gold sodium thiosulfate) by Day 3 and resolved by Day 21. Late positive reactions occurred in 2 subjects (0.9%) 21 days after T.R.U.E. TEST application to the following allergen: gold sodium thiosulfate (n=2). Persistent reactions occurred in 10 subjects (4.6%) 21 days after T.R.U.E. TEST application to the following allergens: bronopol (n=1), Cl+Me+isothiazolinone (n=1), diazolidinyl urea (n=1), gold sodium thiosulfate (n=6), nickel sulfate (n=2), and quaternium-15 (n=1). Ectopic flare of pre-existing dermatitis occurred in 28 (12.8%) of subjects. Of these cases, 1 (0.5%) was severe and 3 (1.4%) were complicated by skin infection. Skin reactions near a panel site were observed in 3 subjects (1.4%). No serious adverse events or deaths considered related to T.R.U.E. TEST occurred.

Panel Adhesion

In Pediatric Study 2, poor panel adhesion was observed in up to 11.3% of subjects who received T.R.U.E. TEST panels. Panel(s) fell off in up to 3.6% of participants in Pediatric Study 2.

6.2 Postmarketing Experience

The following additional adverse reactions have been identified during post-approval use of T.R.U.E. TEST. Because these reactions are continuously reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to T.R.U.E. TEST exposure.

- Acute allergic reactions [see Warnings and Precautions (5.1)]
- Extreme positive reactions [see Warnings and Precautions (5.3)]
- Excited skin syndrome (Angry back) [see Warnings and Precautions (5.4)]
- Irritant contact dermatitis [see Warnings and Precautions (5.6)]

7 DRUG INTERACTIONS

7.1 Systemic Antihistamines

The effect of concomitant systemic antihistamine administration on the performance of patch testing with T.R.U.E. TEST is unknown.

7.2 Systemic Cyclosporins

The effect of concomitant or prior systemic cyclosporin administration on the performance of patch testing with T.R.U.E. TEST is unknown.

7.3 Systemic Glucocorticoids

Oral steroids may cause false negative results of patch testing with T.R.U.E. TEST. The risk of discontinuing or decreasing the dose of oral corticosteroids in order to perform the patch test must be weighed against the benefits of patch testing.

7.4 Topical Immunosuppressants and Immunomodulators

Avoid using test sites to which topical glucocorticoids, antihistamines, immunosuppressants, or immunomodulators are applied. The use of topical steroids or immunosuppressants at or near potential test sites should be avoided from at least one week prior to patch testing through the conclusion of patch testing.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

All pregnancies have a risk of birth defect, loss, or other adverse outcomes. In the US general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively. There are no human or animal data to establish the presence or absence of T.R.U.E. TEST-associated risks during pregnancy.

8.2 Lactation

Risk Summary

It is not known whether the allergens in T.R.U.E. TEST are excreted in human milk. Data are not available to assess the effects of T.R.U.E. TEST on the breastfed child or on milk production/excretion. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for T.R.U.E. TEST and any potential adverse effects on the breastfed child from T.R.U.E. TEST or from the underlying maternal condition.

8.4 Pediatric Use

Safety and effectiveness of T.R.U.E. TEST have not been established in persons younger than 6 years of age.

8.5 Geriatric Use

Clinical studies of T.R.U.E. TEST did not include sufficient numbers of subjects aged 65 years and over to determine whether they respond differently from younger subjects.

11 DESCRIPTION

Thin-layer Rapid Use Epicutaneous Patch Test, T.R.U.E. TEST, is a ready-to-use allergen patch test system consisting of 35 allergen and allergen mix patches, containing 58

allergenic substances, and a negative control.

Each test consists of the following:

<u>Panel-</u> The panel consists of three pieces of surgical tape $(5.2 \times 13.0 \text{ cm})$, each with 12 polyester patches of approximately 0.81 cm^2 . Each patch is coated with a film containing a uniformly dispersed specific allergen or allergen mix. The negative control, located on Panel 1.3, is an uncoated polyester patch.

<u>Tape-</u> The panel tape is composed of polyester. The adhesive used in the panels is acrylate-based. There is no natural rubber latex, rubber components, balsams or rosins in the adhesive or tape. Acrylate adhesives are processed to remove free monomers that may be allergenic.

<u>Foil Pouch-</u> Each test panel is covered by a protective sheet and sealed in a pouch of laminated foil.

<u>Desiccant-</u> A desiccant is included in the foil pouch of Panel 2.3 for stability purposes.

<u>Inactive Ingredients-</u> The allergens are homogenized in one or more of the following materials to produce the allergen films that coat the patches: hydroxypropyl cellulose (HPC), povidone (PVP), povidone with butylhydroxyanisole (BHA) and butylhydroxytoluene (BHT), povidone with sodium bicarbonate and sodium carbonate (PSBSC), and hydroxypropylcellulose with β -cyclodextrin (HPC β).

The individual components of T.R.U.E. TEST Panels 1.3, 2.3, and 3.3 are listed below along with a quantitative description of each patch formulation. Panel 1.3 contains 11 allergens or allergen mixes and a negative control, Panel 2.3 contains 12 allergens or allergen mixes, and Panel 3.3 contains 12 allergens or allergen mixes.

11.1 Allergens on Panel 1.3

Nickel Sulfate (Position 1):

Nickel sulfate hexahydrate (purity \geq 98.5%) is used to formulate this patch. The active allergenic component is nickel. The gel vehicle is hydroxypropyl cellulose. The product is formulated to contain 200 mcg/cm 2 of nickel sulfate hexahydrate, which corresponds to 36 mcg of nickel per patch. Nickel is one of the most common metals in the environment and is found in most metal and metal-plated objects.

Wool Alcohols (Lanolin) (Position 2):

Wool alcohols, USP are a natural product obtained from the fleece of sheep. This allergen is a highly complex mixture of alcohols containing cholesterol, lanosterol, agnosterol, and their dihydro derivatives as well as straight and branched chain aliphatic alcohols. The active allergenic component has not been identified. The gel vehicle is povidone. The product is formulated to contain 1000 mcg/cm ² of wool alcohols, which corresponds to 810 mcg of wool alcohols per patch. Wool alcohols are a common constituent of many ointments, creams, lotions, and soaps.

Neomycin Sulfate (Position 3):

Neomycin sulfate, USP an antibiotic drug substance, is used to formulate this patch. The gel vehicle is povidone. The product is formulated to contain 600 mcg/cm 2 of neomycin sulfate, which corresponds to 486 mcg of neomycin sulfate per patch. Neomycin is a common antibiotic found in topical antibiotic creams, lotions, ointments, eye drops, and ear drops.

Potassium Dichromate (Position 4):

Potassium dichromate (purity \geq 98.5%) is used to formulate this patch. The active allergenic component is chromium. The gel vehicle is povidone. The product is formulated to contain 54 mcg/cm 2 of potassium dichromate, which corresponds to 15.7 mcg of chromium per patch. Chromium is found in cement, as well as in many industrial chemicals.

Caine Mix (Position 5):

Caine mix is composed of three drug substances: benzocaine, USP (purity \geq 98.0); tetracaine hydrochloride, USP (purity \geq 98.5); and dibucaine hydrochloride, USP (purity \geq 97.0). The gel vehicle is povidone. The product is formulated to contain 630 mcg/cm 2 of caine mix, which corresponds to 510 mcg of caine mix per patch (378 mcg of benzocaine, 66 mcg of tetracaine, and 66 mcg of dibucaine). Benzocaine, tetracaine, and dibucaine are found in many topical anesthetic medications.

Fragrance Mix (Position 6):

Fragrance mix is composed of eight substances: geraniol (purity \geq 95%, identity of impurities unknown); cinnamaldehyde (purity ≥95%, contains trace amounts of cinnamyl alcohol); hydroxycitronellal (purity ≥95%, identity of impurities unknown); cinnamyl alcohol (purity $\geq 95\%$, identity of impurities unknown); eugenol, USP (purity $\geq 95\%$, identity of impurities unknown); isoeugenol (purity ≥88%, identity of impurities unknown): α-amylcinnamaldehyde (purity ≥90%, identity of impurities unknown); and oak moss. Oak moss, a dark green sticky paste, is a solvent extract of the lichen Evernia prunastri. The chemical composition is very complex. The acid fraction (95% of the extracted material) is made up of depsides including atranorin, evernic acid, usnic acid, chloratranorin, and degradation products of these depsides. Atranorin is suspected as a prime allergenic component, and its peak (measured with gas chromatography) is used to determine the amount of oak moss in the fragrance mix patch. The gel vehicles used in this patch are povidone and β-cyclodextrin. The product is formulated to contain 500 mcg/cm 2 of fragrance mix, which corresponds to 405 mcg of fragrance mix per patch (approximately 81 mcg of geraniol, approximately 41 mcg of cinnamaldehyde, approximately 63 mcg of hydroxycitronellal, approximately 63 mcg of cinnamyl alcohol, approximately 41 mcg of eugenol, approximately 17 mcg of isoeugenol, approximately 17 mcg of α -amylcinnamaldehyde, and approximately 81 mcg of oak moss). The components of fragrance mix are commonly used in toiletries, fragrances, and flavorings.

Colophony (Position 7):

Colophony is produced from the resin of the pine trees Pinus massoniana and Pinus tabuliformis. It is translucent, pale yellow or brownish yellow, brittle, and glassy in appearance. Colophony consists of 75% to 85% resin acids, 10% neutral fractions (i.e., terpenes), with the remaining part oxidation products. Oxidation products of abietic acid and other resin acids have been identified as the active allergenic components. The ultraviolet absorbance measurement of one of the primary components, abietic acid, is used to quantify colophony. The gel vehicle is povidone. BHA and BHT are added in equal amounts of 11 mcg per patch as antioxidants. The product is formulated to contain 1200 mcg/cm 2 of colophony, which corresponds to 972 mcg of colophony per patch. Colophony is found in adhesives, sealants, and pine oil cleaners.

Paraben Mix (Position 8):

Paraben mix contains the five ester derivatives of parahydroxybenzoic acid: methyl, USP; ethyl, USP; propyl, USP; butyl, USP; and benzyl parahydroxybenzoate in equal parts (purity of each derivative \geq 98.0%). The gel vehicle is povidone. The product is formulated to contain 1000 mcg/cm 2 of paraben mix, which corresponds to 810 mcg of paraben mix per patch. The components of paraben mix can be found in cosmetics, dermatological creams, and paste bandages.

Negative Control (Position 9):

The negative control is an uncoated polyester patch.

Balsam of Peru (Position 10):

Balsam of peru is a resin from a South American tree, Myroxylon balsamum pereirae. The resin consists of a mixture of fragrances and other substances that have not all been identified. Balsam of peru patch content is measured by gas chromatography of its two major constituents, benzyl cinnamate and benzyl benzoate. Several components of

Balsam of peru have been identified as allergens, including cinnamic acid, benzyl alcohol, and vanillin. The gel vehicle is povidone. This patch is formulated to contain 800 mcg/cm 2 of Balsam of peru resin, which corresponds to 648 mcg of Balsam of peru resin per patch. This resin is found in many cosmetics and perfumes and is also used as a flavoring agent in cough syrups, lozenges, chewing gum, and candies.

Ethylenediamine Dihydrochloride (Position 11):

Ethylenediamine dihydrochloride (purity \geq 98.5%) is used to formulate this patch. The active allergenic component is ethylenediamine. The gel vehicle is povidone. The product is formulated to contain 50 mcg/cm 2 of ethylenediamine dihydrochloride, which corresponds to 18 mcg of ethylenediamine per patch. Ethylenediamine is used as a stabilizer, emulsifier, and preservative in topical fungicides, antibiotic creams, eye drops, and nose drops.

Cobalt Dichloride (Position 12):

Cobalt dichloride hexahydrate (purity \geq 98.5%) is used to formulate this patch. The active allergenic component is cobalt. The gel vehicle is hydroxypropyl cellulose. The product is formulated to contain 20 mcg/cm 2 of cobalt dichloride hexahydrate, which corresponds to 4 mcg of cobalt per patch. Cobalt is found in metal-plated objects and costume jewelry.

11.2 Allergens on Panel 2.3

p-tert-Butylphenol Formaldehyde Resin (Position 13):

p-tert-Butylphenol formaldehyde resin (purity \geq 95%) is used to formulate this patch. The active allergenic components have been identified as p-tert-butylphenol formaldehyde and numerous other compounds. The gel vehicle is hydroxypropyl cellulose. The product is formulated to contain 45 mcg/cm 2 of p-tert-butylphenol formaldehyde resin, which corresponds to 36 mcg of p-tert-butylphenol formaldehyde resin per patch. This resin is found in many waterproof glues used in the leather goods, furniture, and shoe industries.

Epoxy Resin (Position 14):

Epoxy resin, a clear viscous liquid, is used to formulate this patch. It consists of 75% to 85% diglycidylether of bisphenol A, the active allergenic component, which is a monomer used for the preparation of polymer epoxy resins. The remaining part consists of the dimer and the trimer. The gel vehicle is hydroxypropyl cellulose. This patch is formulated to contain 50 mcg/cm ² of epoxy resin, which corresponds to 32 mcg of diglycidylether of bisphenol A per patch. This resin is found in adhesives, surface coatings, and paints.

Carba Mix (Position 15):

Carba mix contains three chemicals used to stabilize rubber products: diphenylguanidine (purity \geq 96%), zincdibutyldithiocarbamate (purity \geq 96%), and zincdiethyldithiocarbamate (purity \geq 96%) in equal parts. The gel vehicle is hydroxypropyl cellulose. The product is formulated to contain 250 mcg/cm 2 of carba mix, which corresponds to 203 mcg of carba mix per patch. These chemical stabilizers and accelerators are found in many rubber products, pesticides, and some glues.

Black Rubber Mix (Position 16):

Black rubber mix contains the antioxidant and antiozonate chemicals N-isopropyl-N'-phenyl paraphenylenediamine (purity \geq 95%), N-cyclohexyl-N'-phenyl paraphenylenediamine (purity \geq 90%), and N, N'-diphenyl paraphenylenediamine (purity \geq 90%) in the ratio 2:5:5. The gel vehicle is povidone. The product is formulated to contain 75 mcg/cm 2 of black rubber mix, which corresponds to 61 mcg of black rubber mix per patch. The components of black rubber mix are found in almost all black rubber products, such as tires, handles, and hoses.

Cl+ Me- Isothiazolinone (MCI/MI) (Position 17):

Cl+ Me- Isothiazolinone is an antibacterial preservative that consists of two active ingredients, 5-chloro-2-methyl-4-isothiazolin-3-one (1.05% to 1.25% w/w) and 2-methyl-4-isothiazolin-3-one (0.25% to 0.40% w/w) in a 3:1 ratio at a concentration of 1.5% in aqueous magnesium salts. The gel vehicle is povidone. The product is formulated to contain 4 mcg/cm 2 of Cl+ Me- iso-thiazolinone, which corresponds to 3 mcg of Cl+ Me-isothiazolinone per patch. This preservative is found in many shampoos, creams, lotions, and other skin care products.

Ouaternium-15 (O-15) (Position 18):

Quaternium-15, 1-(3-chloroallyl)-3,5,7,-triaza-1-azonium-adamantane chloride (purity ≥94%), is a preservative. The gel vehicle is hydroxypropyl cellulose. The product is formulated to contain 100 mcg/cm ² of Quaternium-15, which corresponds to 81 mcg of Quaternium-15 per patch. This preservative is found in creams, lotions, shampoos, soaps, and other cosmetics and skin care products.

Methyldibromo Glutaronitrile (MDBGN) (Position 19):

Methyldibromo Glutaronitrile, 1,2-Dibromo-2,4-dicyanobutane (purity ≥95%), is a component of the preservative Euxyl K400. The gel vehicle is povidone. The patch is formulated to contain 5 mcg/cm ² of methyldibromo glutaronitrile, which corresponds to 4 mcg of methyldibromo glutaronitrile per patch. Methyldibromo glutaronitrile is commonly used in cosmetic and personal care products such as body creams, facial and hand lotions, sun screens, baby lotions, shower gels, ultrasonic gel, toilet paper, shampoos, and massage oils. It is also found in cutting oils, drilling oils, glues, and coolants.

p-Phenylenediamine (Position 20):

p-Phenylenediamine (purity \geq 97.5%), a blue-black aniline dye, is used to formulate this patch. The gel vehicle is povidone. The product is formulated to contain 80 mcg/cm 2 of p-phenylenediamine, which corresponds to 65 mcg of p-phenylenediamine per patch. This dye is found most often in permanent and semipermanent hair dyes.

Formaldehyde (Position 21):

Formaldehyde is released from the proallergen N-hydroxymethyl succinimide, which is cleaved into succinimide and formaldehyde when it comes in contact with the transepidermal water on the surface of the skin. Formaldehyde is the active allergenic compound. The content of formaldehyde in the proallergen is 22.1% to 24.1%. The gel vehicle is povidone with sodium bicarbonate and sodium carbonate. The product is formulated to contain 180 mcg/cm 2 of formaldehyde, which corresponds to 146 mcg of formaldehyde per patch. Formaldehyde is found in many building materials and plastic industries.

Mercapto Mix (Position 22):

Mercapto mix is composed of three chemical accelerators that are benzothiazole sulfenamide derivatives. N-cyclohexylbenzothiazyl-sulfenamide (purity \geq 85%), dibenzothiazyl disulfide (purity \geq 97%), and morpholinylmercaptobenzothiazole (purity \geq 85%) are present in equal parts. The gel vehicle is povidone. The product is formulated to contain 75 mcg/cm 2 of mercapto mix, which corresponds to 61 mcg of mercapto mix per patch. This group of chemicals is found in many rubber products, such as shoes, gloves, and elastics.

Thimerosal (Position 23):

Thimerosal, USP (purity \geq 97%) is a preservative that contains mercury. The gel vehicle is povidone. The product is formulated to contain 7 mcg/cm 2 of thimerosal, which corresponds to 6 mcg of thimerosal per patch. Thimerosal is found in some cosmetics, nose drops, eardrops, and vaccines.

Thiuram Mix (Position 24):

Thiuram mix is composed of four substances in equal parts: tetramethylthiuram

monosulfide (purity ≥95%, contains small amounts of tetramethylthiuram disulfide); tetramethylthiuram disulfide (purity ≥95%, contains small amounts of tetramethylthiuram monosulfide); disulfiram, USP (tetraethylthiuram disulfide, purity ≥98.0%); and dipentamethylenethiuram disulfide (purity ≥95%, impurities unknown). The components of thiuram mix can chemically interact, resulting in the formation of mixed disulfides. Thiuram monosulfides and disulfides are the active allergens. The gel vehicle is povidone. The product is formulated to contain 27 mcg/cm ² of thiuram mix, which corresponds to 22 mcg of thiuram mix per patch (5.5 mcg of tetramethylthiuram monosulfide, 5.5 mcg of tetramethylthiuram disulfide, 5.5 mcg of disulfiram, and 5.5 mcg of dipentamethylenethiuram disulfide). These antimicrobial, accelerator, and antioxidant substances are found in many rubber products.

11.3 Allergens on Panel 3.3

Diazolidinyl Urea (DU) (Germall ® II) (Position 25):

Diazolidinyl urea is a complex mixture. The gel vehicle is povidone. The product is formulated to contain 550 mcg/cm ² of diazolidinyl urea, which corresponds to 446 mcg of diazolidinyl urea per patch. Diazolidinyl urea is a preservative found in cosmetics.

Ouinoline Mix (Position 26):

Quinoline mix is composed of two chemical germicides. Clioquinol, USP (purity $\geq 93.0\%$) and clorquinaldol (purity $\geq 95\%$), which are present in equal parts. The product is formulated to contain 190 mcg/cm 2 of quinoline mix, which corresponds to 154 mcg of quinoline mix per patch. The gel vehicle is povidone. Quinolines are found in paste bandages, medicated creams, and ointments.

Tixocortol-21-Pivalate (TIX) (Position 27):

Tixocortol-21-pivalate (purity \geq 95%) is a corticosteroid. The gel vehicle is povidone. The product is formulated to contain 3 mcg/cm 2 of tixocortol-21-pivalate, which corresponds to 2 mcg of tixocortol-21-pivalate per patch. Tixocortol-21-pivalate is found in some medical products. Patch testing with tixocortol-21-pivalate may be used to assist in the diagnosis of allergic contact dermatitis due to corticosteroids in Group A, based on the classification of topical corticosteroids by cross-reactivity.

Gold Sodium Thiosulfate (GST) (Position 28):

Gold sodium thiosulfate (purity \geq 90%) is a fairly common sensitizer with elicitation of symptoms linked to gold in jewelry, occupational exposure to gold, previous rheumatoid arthritis treatment, dental restorations, and gold-plated intracoronary stents. The gel vehicle is hydroxypropyl cellulose and the product is formulated to contain 75 mcg/cm 2 of gold sodium thiosulfate, which corresponds to 23 mcg of gold per patch.

Imidazolidinyl Urea (IMID) (Germall ® 115) (Position 29):

Imidazolidinyl urea is a complex mixture. The gel vehicle is povidone. The product is formulated to contain 600 mcg/cm ² of imidazolidinyl urea, which corresponds to 486 mcg of imidazolidinyl urea per patch. Imidazolidinyl urea is a preservative found in cosmetics.

Budesonide (BUD) (Position 30):

Budesonide, USP (purity $\geq 98.0\%$) is a corticosteroid. The gel vehicle is povidone. The product is formulated to contain 1 mcg/cm 2 of budesonide, which corresponds to 0.8 mcg of budesonide per patch. Budesonide is found in topical medicinal and anti-inflammatory products. Patch testing with budesonide may be used to assist in the diagnosis of allergic contact dermatitis due to corticosteroids in Group B and to certain esters in Group D, based on the classification of topical corticosteroids by cross-reactivity.

Hydrocortisone-17-Butyrate (H-17-B) (Position 31):

Hydrocortisone-17-butyrate, USP (purity \geq 97.0%) is a mid-potent (Group D2)

corticosteroid, most commonly used to treat inflammatory skin disease and psoriasis. The gel vehicle is povidone. The product is formulated to contain 20 mcg/cm ² of hydrocortisone-17-butyrate, which corresponds to 16 mcg of hydrocortisone-17-butyrate per patch. Hydrocortisone-17-butyrate is found in many topical over-the-counter (OTC) and prescription pharmaceuticals.

Mercaptobenzothiazole (Position 32):

Mercaptobenzothiazole (purity ≥98.5%) is a vulcanization accelerator used in rubber products. The gel vehicle is povidone. The product is formulated to contain 75 mcg/cm ² of mercaptobenzothiazole, which corresponds to 61 mcg of mercaptobenzothiazole per patch. This chemical is found in many rubber products, some adhesives, and is used as an industrial anticorrosive agent.

Bacitracin (Position 33):

Bacitracin, USP is an antibiotic used for postoperative and general wound care and is considered a frequent sensitizer. The gel vehicle is hydroxypropyl cellulose and the product is formulated to contain 600 mcg/cm ² of bacitracin which corresponds to 486 mcg of bacitracin per patch. Bacitracin is often a first-line topical remedy for cutaneous injuries and dermatoses as well as for many eye and ear disorders.

Parthenolide (Position 34):

Parthenolide (purity \geq 95%) is a sesquiterpene lactone, which occurs naturally in thousands of plants including Daisies, Feverfew, and Magnolia. The gel vehicle is povidone and the product is formulated to contain 3 mcg/cm 2 of parthenolide, which corresponds to 2 mcg of parthenolide per patch. Allergies to parthenolide occur frequently in gardeners and greenhouse employees, but non-occupational contact with plants and herbal teas containing sesquiterpenes also occurs.

Disperse Blue 106 (DB106) (Position 35):

Disperse blue 106 (purity \geq 90%) is a commonly used thiazol-azoyl-p-phenylene diamine derivative dye used primarily in synthetic textiles and is a significant skin sensitization hazard. The product is formulated to contain 50 mcg/cm 2 of disperse blue 106, which corresponds to 41 mcg of disperse blue 106 per patch. The gel vehicle is povidone. Together with Disperse blue 124, it has been determined to be the primary cause of textile dermatitis.

2-Bromo-2-nitropropane-1,3-diol (Bronopol) (Position 36):

2-Bromo-2-nitropropane-1,3-diol (purity \geq 95%) is an antimicrobial agent commonly used as a preservative in many types of cosmetics, personal care products, and topical medications. The gel vehicle is povidone. The product is formulated to contain 250 mcg/cm 2 of 2-Bromo-2-nitropropane-1,3-diol, which corresponds to 203 mcg of 2-Bromo-2-nitropropane-1,3-diol per patch.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

A positive response to the patch test is a classic delayed cell-mediated hypersensitivity reaction (type IV), which normally appears within 9 to 96 hours after exposure. Following primary contact, an allergen penetrates the skin and binds covalently or noncovalently to epidermal Langerhans cells. The processed allergen is presented to helper T-lymphocytes, resulting in inflammation that produces a papular, vesicular, or bullous response with erythema and itching at the site of application.

14 CLINICAL STUDIES

A basic description of the interpretation method used by study personnel to evaluate the patch reactions obtained during the clinical studies is as follows [see *Dosage and*

Administration (2)]:

- ? Doubtful reaction
- + Weak positive reaction
- ++ Strong positive reaction
- +++ Extreme positive reaction
- Negative reaction
- IR Irritant reaction

14.1 Adults

Ten (10) studies were conducted in North America and Europe to evaluate the effectiveness, frequency of patch reactions, and/or sensitivity and specificity, and/or agreement with a reference allergen (when used) of T.R.U.E. TEST used to diagnosis allergic reactions to one or more allergens and or allergen mixes in the panels in adults. Subjects ranged in age from 18 through 86 years. Subjects with suspected allergic contact dermatitis, based on history or clinical signs, were tested in all studies. The allergens tested in each of the studies are noted in Table 1 [see Adverse Reactions (6.1)].

Study No. 1

This study evaluated the efficacy of T.R.U.E. TEST Panel 1.1. A total of 127 subjects with suspected contact dermatitis were recruited. T.R.U.E. TEST Panel 1.1, containing 12 allergens (no negative control was on the original Panel 1) was applied to the subject's back and remained there for 48 hours. The results were evaluated after 48 and 72 to 96 hours. Forty-five (45) subjects showed a total of 65 reactions to 11 of the 12 allergens in Panel 1.1. There were positive test reactions to all allergens except potassium dichromate. See Table 4.

Study No. 2

This study evaluated the efficacy of T.R.U.E. TEST Panel 2.1. A total of 121 subjects with suspected contact dermatitis were recruited. T.R.U.E. TEST Panel 2.1, containing 11 allergens and a negative control, was applied to the subject's back and remained there for 48 hours. The results were evaluated after 72 to 96 hours. Thirty-two (32) subjects showed a total of 46 positive test reactions. There were positive responses to all of the allergens except quinoline mix and paraben mix. See Table 4.

Study No. 3

This study evaluated the efficacy of T.R.U.E. TEST Panels 1.1 and 2.1 in a North American patient population referred for patch testing. One hundred nineteen (119) subjects were enrolled. T.R.U.E. TEST Panels 1.1 and 2.1, containing 23 allergens and a negative control, were applied to the subject's back and remained there for 48 hours. The results were evaluated at 72 to 96 hours after application. Results show that 66 subjects had a total of 123 positive test reactions. There were positive test responses to all of the allergens. See Table 4.

Study No. 4

This study was an open, multicenter, study that evaluated the efficacy of T.R.U.E. TEST and obtained information on late reactions and persistent local responses at a Day 21 safety visit (see Table 2). A total number of 50 prospectively identified subjects with suspected contact dermatitis were recruited. The most common dermatitis site was the hand, and the most common dermatitis type was allergic. T.R.U.E. TEST Panels 1.1 and 2.1 (24 allergens or allergen mixes, no negative control) were applied to the subject's back and remained there for 48 hours. The results were evaluated after 72 to 96, 120, or 168 hours. Thirty-two (32) subjects showed a total of 66 reactions to 21 of the 24 allergens included in T.R.U.E. TEST. The following allergens gave no reactions: caine mix, epoxy resin, quinoline mix, and black rubber mix. See Table 4.

Study No. 5

This single-site study evaluated the sensitivity and specificity of T.R.U.E. TEST Panel 3 allergens diazolidinyl urea (DU) (Germall® II) and imidazolidinyl urea (IMID) (Germall® 115) for diagnosing allergic contact dermatitis in a North American patient population. Comparison of allergen reactivity between allergens in T.R.U.E. TEST and allergens in petrolatum were made. One hundred thirty (130) subjects were enrolled and included 100 consecutive subjects (subjects with a clinical history consistent with allergic contact dermatitis without a previous positive patch test reaction) and sensitive subjects with a previous positive patch test reaction to petrolatum-based DU (15 subjects) and IMID (15 subjects) allergens in the past 5 years and a clinical history of allergic contact dermatitis. T.R.U.E. TEST Panel 3 allergens DU and IMID were applied to the subject's back and remained there for 48 hours. Patch test reactions were evaluated at 72 to 96 hours and again 7 days after application using the study endpoints, including measurements of positive reaction frequency, specificity, sensitivity, and agreement estimate as shown in Table 4 for each allergen.

Study No. 6

This study evaluated the sensitivity and specificity of T.R.U.E. TEST Panel 3 allergens tixocortol-21-pivalate (TIX) and budesonide (BUD) for diagnosing allergic contact dermatitis in a North American patient population. Comparison of allergen reactivity between allergens in T.R.U.E. TEST and allergens in petrolatum were made. One hundred twenty-eight (128) subjects were enrolled and included 100 consecutive subjects (subjects with a clinical history consistent with allergic contact dermatitis without a previous positive patch test reaction) and sensitive subjects with a previous positive patch test reaction to petrolatum based TIX (9 subjects) and BUD (19 subjects) allergens in the past 5 years and clinical history of allergic contact dermatitis. T.R.U.E. TEST Panel 3 allergens TIX and BUD were applied to the subject's back and remained there for 48 hours. Patch test reactions were evaluated 72 to 96 hours and again 7 days after application for 94 subjects. Six (6) subjects were withdrawn at Visit 2 due to poor tape adhesion prior to Visit 2. Patch test reactions were evaluated using the study endpoints, including measurements of positive reaction frequency, specificity, sensitivity, and agreement estimate as shown in Table 4.

Study No. 7

This study evaluated the sensitivity and specificity of T.R.U.E. TEST Panel 3.1 allergens tixocortol-21-pivalate (TIX), Hydrocortisone-17-butyrate (H-17-B), and budesonide (BUD) for diagnosing allergic contact dermatitis in a European patient population. Comparison of allergen reactivity between allergens in T.R.U.E. TEST and allergens in petrolatum were made. The enrolled study population included 200 consecutive subjects (subjects with a clinical history consistent with allergic contact dermatitis without a previous positive patch test reaction). T.R.U.E. TEST allergens TIX, H-17-B, BUD, and the corresponding petrolatum reference allergens were applied to the subject's back and remained there for 48 hours. Patch test reactions were evaluated at 72 to 96 hours and again 7 days after application. Of the 200 consecutive subjects evaluated, 1 subject was withdrawn due to poor tape adhesion prior to Visit 2 and 1 subject was excluded due to no follow-up visits. Therefore, 198 subjects were included in the evaluation of TIX and BUD. In addition, 3 subjects were withdrawn due to the H-17-B reference allergen patch not being applied at the initial visit. Therefore, 195 subjects were included in the evaluation for H-17-B. Patch test reactions were evaluated using the study endpoints, including measurements of positive reaction frequency, specificity, sensitivity, and agreement estimate as shown in Table 4.

Study No. 8

This was an open label, prospective, multi-center (5 site) study that evaluated the sensitivity and specificity of gold sodium thiosulphate (GST), Hydrocortisone-17-butyrate (H-17-B), bacitracin, parthenolide, methyldibromo glutaronitrile (MDBGN), disperse blue 106 (DB106), and 2-bromo-2-nitropropane-1,3-diol (bronopol) in adult subjects with suspected contact dermatitis and in adult subjects with a known or suspected

sensitization to at least 1 of the 7 allergens. Of the 235 enrolled subjects, 110 were consecutive subjects (subjects with a clinical history consistent with allergic contact dermatitis without a previous positive patch test reaction) and 125 were sensitive subjects (subjects with a previous positive patch test reaction to at least 1 of the 7 allergens). The frequencies of all patch test reactions for each allergen were tabulated at 72 to 96 hours.

The agreement between the T.R.U.E. TEST allergens and their corresponding reference allergens was generally high among subjects who were sensitive to each allergen as seen in Table 4. With the exception of MDBGN, subjects who had sensitivities to each individual allergen had similar reactions to both the T.R.U.E. TEST allergens and the corresponding reference allergens with percent agreements ranging from 75.0% (for bacitracin) to 94.4% (for parthenolide). The results for MDBGN in this study may be unreliable due to the presence of phenoxyethanol (PE) in the reference allergen. Specifically, PE is a recognized irritant. Results of frequency, specificity, sensitivity, and agreement estimate are shown in Table 4.

Study No. 9

This in-use study evaluated the relationship between reactions caused by a natural sensitizer, such as nickel containing costume jewelry, and T.R.U.E. TEST. Forty nine (49) subjects with a history of cutaneous reactions to jewelry were tested with T.R.U.E. TEST Panel 1.1. A medallion containing approximately 20% nickel served as a positive control. Reactions were evaluated 72 to 96 hours after application. In comparing the in-use test results, 35% of the T.R.U.E. TEST nickel patch positive results would have been considered false positives and 5.3% would have been considered false negatives. However, the results from this study may be unreliable. The metal composition of jewelry can vary greatly from manufacturer to manufacturer and thereby alter the bioavailability of the nickel ions. A different medallion could have produced either a greater or lesser correlation with T.R.U.E. TEST nickel patch. The comparatively large number of additional nickel positive results obtained with T.R.U.E. TEST may be true positives unresponsive to the particular medallion used in this study, although false positive reactions cannot be ruled out.

Study No. 10

The study was a Phase 4 postmarketing open label, non-randomized, non-blinded prospective study including nine subjects. All subjects had previous positive patch test results for Quaternium-15 (Q-15). The subjects were exposed to the T.R.U.E. TEST Q-15 patch at a concentration of 100 mcg/cm 2 and daily applications of a topical product containing Q-15 after the completion of the patch test. Reactions were evaluated 72 to 96 hours after application. T.R.U.E. TEST detected Q-15 sensitivity in 87.50% (7/8) of the Q-15 allergic subjects while the topically applied lotion elicited a positive response in 50% (4/8) of the study population. One subject tested negative to both methods of Q-15 and was removed from the endpoint analysis.

Study Data

Table 4 presents the frequency of positive reactions to T.R.U.E. TEST in consecutive subjects (subjects with a clinical history consistent with allergic contact dermatitis without a previous positive patch test reaction) for each allergen. The frequency of positive reactions to T.R.U.E. TEST in consecutive subjects and sensitive subjects (subjects with a previous positive patch test reaction to a specific allergen or allergens) for Quaternium-15 are presented in Table 4. The sensitivity, specificity, and agreement estimate between each T.R.U.E. TEST allergen and the corresponding reference allergen (when used) are presented for consecutive subjects and sensitive subjects (when done) in Table 4.

Sensitivity was determined using the formula $[TP / (TP + FN)] \times 100$, where TP (true positive) represented positive results for both the T.R.U.E. TEST allergen and the corresponding reference allergen, and FN (false negative) represented negative results for the T.R.U.E. TEST allergen and positive results for the corresponding reference

allergen. Specificity was determined using the formula [TN / (TN + FP)] \times 100, where TN (true negative) represented negative results for both the T.R.U.E. TEST allergen and the corresponding reference allergen, and FP (false positive) represented positive results for the T.R.U.E. TEST allergen and negative results for the corresponding reference allergen. The agreement estimate (with 95% confidence intervals), as well as overall percent agreement and Cohen's kappa statistic between the test site skin reactions obtained for each of the seven T.R.U.E. TEST Panel 3.2 allergens and the test site skin reactions obtained for their associated reference allergens in petrolatum or ethanol were calculated for all subjects combined, as well as for the populations of sensitive and consecutive subjects.

Table 6- Available Frequency, Sensitivity, Specificity, and Agreement Estimate of T.R.U.E. TEST Allergens

Panel 1.3

Nickel sulfate * Position	1 (Studies 1, 3, 4 and 9)
Frequency from consecutive	90/345 (26.1)
subjects only (%)	90/343 (20.1)

Wool alcohols (Lanolin) * Position 2 (Studies 2, 3, and 4)						
Frequency from consecutive subjects only (%)	/// / / / / / / / / / / / / / / / / / /					

Neomycin sulfate * Position	n 3 (Studies 1, 3, 4, and 9)
Frequency from consecutive	16/345 (4.6)
subjects only (%)	10/343 (4.0)

Potassium dichromate * Posi	tion 4 (Studies 1, 3, 4 and 9)
Frequency from consecutive subjects only (%)	7/343 (1.4)

Caine mix * Position 5 (Studies 1, 3, 4, and 9)
Frequency from consecutive subjects only (%)	1/3/15 (/ 11)

Fragrance mix * Position	6 (Studies 1, 3, 4, and 9)
Frequency from consecutive	23/345 (6.7)
subjects only (%)	23/343 (0.7)

Colophony * Position 7	(Studies 1, 3, 4, and 9)
Frequency from consecutive subjects only (%)	11/3/15 (3 /)

Paraben mix * Position 8	3 (Studies 1, 3, 4, and 9)
Frequency from consecutive	5/290 (1.7)
subjects only (%)	3/290 (1.7)

Balsam of peru * Position 1	LO (Studies 1, 3, 4, and 9)
Frequency from consecutive	17/345 (4.9)
subjects only (%)	17/343 (4.9)

Ethylenediamine dihydrochloride * Position 11 (Studies 1, 3, 4 and 9)	
Frequency from consecutive subjects only (%)	1/3/15 (/ 11)

Cobalt dichloride * Position	12 (Studies 1, 3, 4, and 9)
Frequency from consecutive subjects only (%)	79/345 (8.4)

Panel 2.3

p-tert-Butylphenol formaldehyde resin * Position 13 (Studies 2, 3, and 4)	
Frequency from consecutive subjects only (%)	

Epoxy resin * Position 14	(Studies 1, 3, 4, and 9)
Frequency from consecutive subjects only (%)	7/347 (1.4)

Carba mix * Position 15	(Studies 2, 3, and 4)
Frequency from consecutive	6/290 (2.1)
subjects only (%)	0/290 (2.1)

Black rubber mix * Positio	n 16 (Studies 2, 3, and 4)
Frequency from consecutive	4//4/11/41
subjects only (%)	4/230 (1.4)

CI+ Me- isothiazolinone (MCI/MI) * Position 17 (Studies 2, 3, and 4)	
Frequency from consecutive subjects only (%)	0//901/01

Quaternium-15 (Q-15) * Position 18		
Test on sensitive subjects (Study 10)		
Frequency from consecutive subjects only (%)		
Test on consecutive subjects (Studies 2, 3, and 4)		
Frequency from consecutive subjects only (%)		

Methyldibromo glutaronitrile (MDBGN) Position 19 (Study **Petrolatum-based** Test on sensitive subjects MDBGN/PE † Pos Neg Total Pos 4 1 5 10 14 T.R.U.E. TEST Panel Allergen Neg 24 Total 14 15 29 28.6 (8.4, 58.1) Sensitivity (%) (95% CI) Specificity (%) (95% CI) 93.3 (68.1, 99.8) Agreement (%) (95% CI) 62.1 (42.3, 79.3) **Petrolatum-based** MDBGN/PE † Test on consecutive subjects Pos Neg Total Pos 1 0 1 T.R.U.E. TEST Panel Allergen 5 104 109 Neg

6

1/110 (0.9)

104

110

Total

Frequency from consecutive

subjects only (%)

Sensitivity (%)(95% CI)	16.7 (0.4, 64.1)
Specificity (%) (95% CI)	100 (96.5, 100.0)
Agreement (%) (95% CI)	95.5 (89.7, 98.5)

Phenylenediamine * Position	20 (Studies 1, 3, 4, and 9)
Frequency from consecutive	13/345 (3.8)
subjects only (%)	13/343 (3.6)

Formaldehyde * Position	on 21 (Studies 3 and 4)
Frequency from consecutive	10/169 (5.9)
subjects only (%)	10/109 (3.9)

Mercapto mix * Position 22	2 (Studies 2, 3, and 4)
Frequency from consecutive	9/290 (3.1)
subjects only (%)	• • •

Thimerosal * Position 23 (Studies 2, 3, and 4)			
Frequency from consecutive subjects only (%)	311/241111131		

Thiuram mix * Position 24	l (Studies 1, 3, 4, and 9)
Frequency from consecutive	14/345 (4.1)
subjects only (%)	14/343 (4.1)

Panel 3.3

Diazolidinyl urea (DU) (Germall® II) Position 25 (Study 5)				
Test on sensitive subjects *		Petro	latum-k DU	ased
		Pos	Neg	Total
	Pos	4	2	6
T.R.U.E. TEST Allergen	Neg	2	7	9
	Total	6	9	15
Sensitivity (%)(95% CI)	66.7 (22.3, 95.7)			
Specificity (%) (95% CI)	77.8 (40.0, 97.2)			
Agreement (%) (95% CI)		73.3 (44.	9, 92.2)	
Petrolatum-based				pased
Test on consecutive subject		DU		
		Pos	Neg	Total
	Pos	Pos 3	Neg 1	Total 4
T.R.U.E. TEST Allergen			-	
T.R.U.E. TEST Allergen	Pos	3	1	4
T.R.U.E. TEST Allergen Frequency from consecutive subjects only (%)	Pos Neg Total	3	1 91 92	4 94
Frequency from consecutive	Pos Neg Total	3 3 6	1 91 92 (4.1)	4 94
Frequency from consecutive subjects only (%)	Pos Neg Total	3 3 6 4 /98	1 91 92 (4.1) 3, 88.2)	4 94 98

Quinoline mix * Position	26 (Studies 2, 3, and 4)
Frequency from consecutive	2/290 (0.7)
subjects only (%)	2/290 (0.7)

Tixocortol-21-pivalate (TIX) Position 27 (Studies 6 and 7 [‡])			
	Petrolatum-based		

rest ou sensitive subjects		11/			
		Pos	Neg	Total	
	Pos	7	1	8	
T.R.U.E. TEST Allergen	Neg	0	1	1	
	Total	7	2	9	
Sensitivity (%)(95% CI)	1	00 (59.0	, 100.0)		
Specificity (%) (95% CI)		50 (1.3,	98.7)		
Agreement (%) (95% CI)	88.9 (51.8, 99.7)				
	-			pased	
Test on consecutive subjects		TIX			
		Pos	Neg	Total	
	_	5	4	9	
	Pos	,	7		
T.R.U.E. TEST Allergen	Neg	1	282	283	
T.R.U.E. TEST Allergen			•		
T.R.U.E. TEST Allergen Frequency from consecutive subjects only (%)	Neg	1	282 286	283	
Frequency from consecutive	Neg Total	1 6	282 286 (3.1)	283	
Frequency from consecutive subjects only (%)	Neg Total	1 6 9/292	282 286 (3.1) 9, 99.6)	283 292	
Frequency from consecutive subjects only (%) Sensitivity (%)(95% CI)	Neg Total	1 6 9/292 83.3 (35.	282 286 (3.1) 9, 99.6) 5, 99.6)	283 292	

TIX

Test on sensitive subjects

Gold sodium thiosulfate (GST) Position 28 (Study 8)					
		Petro	latum-k	pased	
Test on sensitive subjects		GST			
		Pos	Neg	Total	
	Pos	12	3	15	
T.R.U.E. TEST Allergen	Neg	0	4	4	
	Total	12	7	19	
Sensitivity (%)(95% CI)	100 (73.5, 100.0)				
Specificity (%) (95% CI)	57.1 (18.4, 90.1)				
Agreement (%) (95% CI)	84.2 (60.4, 96.6)				
		Petrolatum-based			
Test on consecutive subje	ects	GST			
		Pos	Neg	Total	
	Pos	11	17	28	
T.R.U.E. TEST Allergen	Neg	0	82	82	
	Total	11	99	110	
Frequency from consecutive		28/110	(25.5)		
subjects only (%)	28/110 (25.5)				
Sensitivity (%)(95% CI)	1	LOO (71.5	5, 100.0)		
Specificity (%) (95% CI)	;	82.8 (73.	9, 89.7)		
Agreement (%) (95% CI)	84.5 (76.4, 90.7)				

Imidazolidinyl urea (IMID) (Germall 115 $f earline{1}$) Position 29 (Study 5)				
Test on sensitive subjec	ts	Petro	latum-k IMID	pased
		Pos	Neg	Total
	Pos	3	1	4
T.R.U.E. TEST Allergen	Neg	2	9	11
	Total	5	10	15
Sensitivity (%)(95% CI)	60 (14.7, 94.7)			
Specificity (%) (95% CI)	90 (55.5, 99.7)			
Agreement (%) (95% CI)	95% CI) 80.0 (51.9, 95.7)			
Petrolatum-based				

Test on consecutive subjects		IMID		
		Pos	Neg	Total
	Pos	3	0	3
T.R.U.E. TEST Allergen	Neg	3	92	95
_	Total	6	92	98
Frequency from consecutive subjects only (%)	3/98 (3.1)			
Sensitivity (%)(95% CI)	50 (11.8, 88.2)			
Specificity (%) (95% CI)	100 (96.1, 100.0))
Agreement (%) (95% CI)	CI) 96.9 (91.3, 99.4)			

Dudge anide (DUD) Decition 30 (Study Canal 7 t)					
Budesonide (BUD) Position 30 (Study 6 and 7 ‡)					
			latum-k		
Test on sensitive subjec	ts	budesonide		de	
		Pos	Neg	Total	
	Pos	11	1	12	
T.R.U.E. TEST Allergen	Neg	1	6	7	
	Total	12	7	19	
Sensitivity (%)(95% CI)	9	91.7 (61.	5, 99.8)		
Specificity (%) (95% CI)	;	85.7 (42.	1, 99.6)		
Agreement (%) (95% CI)	8	89.5 (66.	9, 98.7)		
		Petro	latum-k	ased	
Test on consecutive subje	ects		latum-k desonio		
Test on consecutive subje	ects				
Test on consecutive subje	ects Pos	bu	desoni	de	
Test on consecutive subject		bu Pos	desonic Neg	de Total	
	Pos	Pos 2	desonio Neg 1	de Total 3	
	Pos Neg	Pos 2 0 2	Neg 1 289 290	Total 3 289	
T.R.U.E. TEST Allergen	Pos Neg	Pos 2 0	Neg 1 289 290	Total 3 289	
T.R.U.E. TEST Allergen Frequency from consecutive	Pos Neg Total	Pos 2 0 2	Neg 1 289 290 (1.0)	Total 3 289 292	
T.R.U.E. TEST Allergen Frequency from consecutive subjects only (%)	Pos Neg Total	Pos 2 0 2 3/292	Neg 1 289 290 (1.0)	Total 3 289 292	

Hydrocortisone-17-butyrate (H-17-B) Position 31 (Studies 7^{\ddagger} and 8)					
Test on sensitive subjec	tc	Ethano	l-based B	H-17-	
rest on sensitive subject	LS	Pos	Neg	Total	
	Pos	12	1	13	
T.R.U.E. TEST Allergen	Neg	1	6	7	
	Total	13	7	20	
Sensitivity (%)(95% CI)	-	92.3 (64.	0, 99.8)		
Specificity (%) (95% CI)		85.7 (42.	1, 99.6)		
Agreement (%) (95% CI)	1	90.0 (68.	3, 98.8)		
	Ethanol-based H-17			H-17-	
Test on consecutive subje	ects		В		
		Pos	Neg	Total	
	Pos	0	0	0	
T.R.U.E. TEST Allergen	Neg	1	304	305	
	Total	1	304	305	
Frequency from consecutive subjects only (%)		0/305	(0.0)		
Sensitivity (%)(95% CI)		0 (0.0,	97.5)		
Specificity (%) (95% CI)	-	100 (98.8	3. 100.0)		

Mercaptobenzothiazole * Position 32 (Studies 2, 3, and 4) Frequency from consecutive subjects only (%) 8/290 (2.8)

Bacitracin Position 33 (Study 8)					
Test on sensitive subjec	ts		latum-k acitraci		
_		Pos	Neg	Total	
	Pos	13	5	18	
T.R.U.E. TEST Allergen	Neg	1	5	6	
	Total	14	10	24	
Sensitivity (%)(95% CI)	(92.9 (66.	1, 99.8)		
Specificity (%) (95% CI)		50 (18.7	', 81.3)		
Agreement (%) (95% CI)	7	75.0 (53.3, 90.2)			
		Petro	latum-k	haser	
		I CLIO	iacum-k	Jaseu	
Test on consecutive subje	ects		acitraci		
Test on consecutive subje	ects				
Test on consecutive subje	Pos	ba	acitraci	n	
Test on consecutive subjection		Pos Pos	acitraci Neg	n Total	
	Pos	Pos 5	Neg 0	n Total 5	
	Pos Neg	Pos 5	Neg 0 104 104	Total 5 105	
T.R.U.E. TEST Panel Allergen Frequency from consecutive	Pos Neg Total	Pos 5 1 6	Neg 0 104 104 (4.5)	Total 5 105 110	
T.R.U.E. TEST Panel Allergen Frequency from consecutive subjects only (%)	Pos Neg Total	Pos 5 1 6 5/110	Neg 0 104 104 (4.5) 9, 99.6)	Total 5 105 110	

Parthenolide Position 34 (Study 8)					
Test on sensitive subjec	ts		latum-k thenoli		
		Pos	Neg	Total	
	Pos	13	0	13	
T.R.U.E. TEST Allergen	Neg	1	4	5	
	Total	14	4	18	
Sensitivity (%)(95% CI)	Ç	92.9 (66.	1, 99.8)		
Specificity (%) (95% CI)	1	.00 (39.8	, 100.0)		
Agreement (%) (95% CI)	Ç.	94.4 (72.	7, 99.9)		
		Petro	latum-k	ased	
Test on consecutive subje	ects	parthenolide			
		Pos	Neg	Total	
	Pos	1	0	1	
		_			
T.R.U.E. TEST Panel Allergen	Neg	0	109	109	
T.R.U.E. TEST Panel Allergen	Neg Total	0 1	109 109	109	
Frequency from consecutive subjects only (%)	Total	•	109		
Frequency from consecutive	Total	1	109		
Frequency from consecutive subjects only (%)	Total	1 1/110	109 (0.9) 100.0)	110	

Disperse blue 106 (DB106) Position 35 (Study 8)				
Test on sensitive subjects	Petrolatum-based DB106			
	Pos	Neg	Total	

	Pos	8	1	9
T.R.U.E. TEST Allergen	Neg	1	7	8
	Total	9	8	17
Sensitivity (%)(95% CI)	8	88.9 (51.	8, 99.7)	
Specificity (%) (95% CI)	8	87.5 (47.	3, 99.7)	
Agreement (%) (95% CI)	8	88.2 (63.	6, 98.5)	
		Petro	latum-k	pased
Test on consecutive subje	ects		DB106	
		Pos	Neg	Total
	Pos	1	0	1
T.R.U.E. TEST Panel Allergen	Neg	0	109	109
	Total	1	109	110
Frequency from consecutive subjects only (%)				
Sensitivity (%)(95% CI)	Sensitivity (%)(95% CI) 100 (2.5, 100.0)			
Specificity (%) (95% CI)	100 (96.7, 100.0)			
Agreement (%) (95% CI)	10	00.0 (96.	7, 100.0))

2-Bromo-2-nitropropane-1,3-diol (Bronopol) Position 36 (Study 8)						
Test on sensitive subjec	ts		latum-k ronopo			
_		Pos	Neg	Total		
	Pos	4	4	8		
T.R.U.E. TEST Allergen	Neg	0	15	15		
	Total	4	19	23		
Sensitivity (%)(95% CI)	1	.00 (39.8	, 100.0)			
Specificity (%) (95% CI)	-	78.9 (54.	4, 93.9)			
Agreement (%) (95% CI)	8	32.6 (61.	2, 95.0)			
		Petro	latum-k	ased		
Test on consecutive subje	ects	В	ronopo	l		
		Pos	Neg	Total		
	Pos	1	2	3		
	F U 3		4)		
T.R.U.E. TEST Panel Allergen	Neg	0	107	107		
T.R.U.E. TEST Panel Allergen						
T.R.U.E. TEST Panel Allergen Frequency from consecutive subjects only (%)	Neg	0	107 109	107		
Frequency from consecutive	Neg Total	0	107 109 (2.7)	107		
Frequency from consecutive subjects only (%)	Neg Total	0 1 3/110	107 109 (2.7) 100.0)	107		

^{**} Dose and/or excipients may have changed from clinical study product reported to finished product.

14.2 Children and Adolescents 6 through 17 Years of Age

Two studies were conducted in the US to evaluate the diagnostic performance of T.R.U.E. TEST in children and adolescents 6 through 17 years of age. Subjects had three T.R.U.E. TEST panels applied to their back or upper arm for 48 hours. Reactions at the patch test sites were evaluated at days 3 and/or 4, 7 and 21 after patch test application [see *Interpretation Instructions* (2.4)].

Pediatric Study 1

^{*} No reference control allergen was used.

[†] The reference allergen MDBGN was used at one site and MDBGN/PE was used at four sites.

[‡] Only consecutive subjects were evaluated in Study 7.

In an open-label, prospective, single-center study conducted in the US, 102 children and adolescents 6 through 17 years of age with suspected allergic contact dermatitis were enrolled to evaluate the diagnostic performance of a previously approved version of T.R.U.E. TEST (Panels 1.1, 2.1, 3.1). This version included a negative control and 28 allergens and allergen mixes, 4 (on Panel 1.1) of which were reformulated and are not included on Panel 1.3 . The per-protocol analysis set included 100 subjects. The frequencies of positive reactions to the 24 allergens contained in T.R.U.E. TEST and to the negative controls are shown in Table 7.

Pediatric Study 2

In an open-label, prospective, multi-center study conducted in the US, 116 children and adolescents 6 through 17 years of age with suspected allergic contact dermatitis were enrolled. Although the three T.R.U.E. TEST panels administered to subjects in this study included all 35 allergens and allergen mixes, the primary analysis of diagnostic performance was limited to the 4 reformulations and the 7 new allergens and allergen mixes. The frequencies of positive reactions to 11 of the allergens contained in T.R.U.E. TEST and to the negative control were analyzed and are shown in Table 7.

Table 7- Pediatric Studies 1 *and 2 †: Frequencies of Positive Reactions ‡ (on Days 3, 4, and 7 After T.R.U.E. TEST Application) to T.R.U.E. TEST Allergens Among Children and Adolescents 6 through 17 Years of Age with Suspected Allergic Contact Dermatitis: Per Protocol Analysis Sets

		Pediatric Study 1 *	Pediatric Study 2 [†]
		N=100	N=53 §
Panel	Allergen	n (%)	n (%)
	1. Nickel Sulfate	30 (30.0)	NA [¶]
	2. Wool Alcohols	16 (16.0)	NA
	3. Neomycin Sulfate	NA	2 (3.8)
	4. Potassium Dichromate	NA	2 (3.8)
	5. Caine Mix	0 (0.0)	NA
	6. Fragrance Mix	NA	2 (3.8)
Panel 1.3	7. Colophony	9 (9.0)	NA
	8. Paraben Mix	2 (2.0)	NA
	9. Negative Control	0 (0.0)	NA
	10. Balsam of Peru	10 (10.0)	NA
	11. Ethylenediamine Dihydrochloride	NA	0 (0.0)
	12. Cobalt Dichloride	13 (13.0)	NA
		N=100	N=111
	13. p-tert-Butylphenol Formaldehyde Resin	17 (17.0)	NA
	14. Epoxy Resin	4 (4.0)	NA
	15. Carba Mix	7 (7.0)	NA
	16. Black Rubber Mix	2 (2.0)	NA
	17. Cl+Me-Isothiazolinone (MCI/MI)	4 (4.0)	NA
Panel 2.3	18. Quaternium-15	4 (4.0)	NA
	19. Methyldibromo Glutaronitrile (MDBGN)	NA	1 (0.9)
	20. p-Phenylenediamine	2 (2.0)	NA
	21. Formaldehyde	7 (7.0)	NA
	22. Mercapto Mix	2 (2.0)	NA

	23. Thimerosal	4 (4.0)	NA
	24. Thiuram Mix	7 (7.0)	NA
	25. Diazolidinyl urea	5 (5.0)	NA
	26. Imidazolidinyl urea	2 (2.0)	NA
	27. Budesonide	1 (1.0)	NA
	29. Quinoline Mix	1 (1.0)	NA
	28. Tixocortol-21-pivalate	8 (8.0)	NA
	28. Gold Sodium Thiosulfate (GST)	NA	30 (27.0)
Panel 3.3	31. Hydrocortisone-17- Butyrate (H-17-B)	NA	2 (1.8)
	19. & 32. Mercaptobenzothiazole	2 (2.0)	NA
	33. Bacitracin	NA	14 (12.6)
	34. Parthenolide	NA	8 (7.2)
	35. Disperse Blue 106	NA	4 (3.6)
	36. 2-Bromo-2-nitropane- 1,3-diol (Bronopol)	NA	19 (17.1)

^{*} NCT: 00795951

16 HOW SUPPLIED/STORAGE AND HANDLING

A multipack carton contains five units. Each unit consists of three adhesive panels, each containing 12 patches - NDC 67334-0457-1.

Store T.R.U.E. TEST between 2° and 8° C (36° and 46° F). Refrigeration required. Do not freeze. Failure to store T.R.U.E. TEST as recommended may result in loss of potency and inaccurate test results.

17 PATIENT COUNSELING INFORMATION

Inform the patient of the following:

- Patients should seek immediate medical attention and contact their healthcare provider if they experience symptoms of a severe allergic reaction such as trouble breathing or wheezing; a swollen tongue or throat; a drop in blood pressure resulting in dizziness or fainting; a weak and rapid pulse; hives or widespread itching [see Warnings and Precautions (5.1)].
- Patients may remove the panels themselves if advised by their healthcare provider to do so or if they are experiencing systemic symptom [see *Warnings and Precautions* (5.1)].
- Itching and burning sensations are common with patch testing and may be severe in extremely sensitive patients.
- Avoid UV exposure and tanning beds [see *Dosage and Administration (2.1)*].
- Patients should report to their physician any reactions at the patch test site occurring seven or more days after panel removal to identify potential late or persistent reactions or possible sensitizations [see Warnings and Precautions (5.2, 5.7, 5.8) and Dosage and Administration (2.2)].

NCT: 01797562
 In Pediatric Studies 1 and 2, positive patch reactions were read on days 3, 4, and 7. Frequencies of positive reactions reported in this table include those characterized as weak (+), strong (++), and extreme positive (+++) based on presence and degree of erythema, infiltration,

papules, vesicles, and bullae. § Only 53 subjects in Pediatric Study 2 in the per-protocol analysis set received Panel 1.3.

[¶] NA= Not Applicable/Not Available. The results are not applicable because the allergens and allergen mixes were either from previously approved formulations, not evaluated or not pre-specified as the primary endpoint of the study.

- p-Phenylenediamine and disperse blue 106 (DB106) are dyes and may leave a dark spot on the skin at the allergen location. This is not an allergic reaction. This discoloration may remain for approximately two weeks.
- Avoid getting the panels and surrounding area wet [see *Dosage and Administration* (2.1)].
- Patients should avoid physical activity that may result in reduced adhesion or actual loss of the test panels [see *Dosage and Administration (2.1)*].
- Patients should avoid excessive sweating and keep the test panels and surrounding area dry [see *Dosage and Administration (2.1)*].

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THIN-LAYER RAPID USE EPICUTANEOUS PATCH TEST T.R.U.E. TEST ® NDC: 67334-0457-1



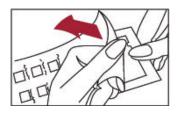
For further details of allergen constituents and dose, see outer box.

Rx only For Topical Use Only

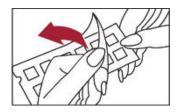
Store between 2° and 8°C (36° and 46°F).

PANEL 1.3

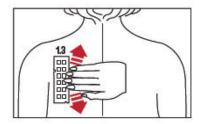
Application Instructions



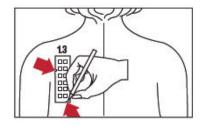
Peel open the package and remove the test panel.



Remove the protective plastic covering from the test surface of the panel. Be careful not to touch the test substances.



Position test Panel 1.3 on the patient's back. Allergen number 1 should be in the upper left corner. Avoid applying the panel on the margin of the scapula or directly over the midline of the spine. Ensure that each patch of the allergen panel is in contact with the skin by smoothing the panel outward from the center to the edge.



With a medical marking pen, indicate on the skin the location of the two notches on the panel.

Store between 2° and 8°C (36° and 46°F). Refrigeration required. Do not freeze.

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51-2009-00/1

THIN-LAYER RAPID USE EPICUTANEOUS PATCH TEST

T.R.U.E. TEST ® NDC: 67334-0457-1



For further details of allergen constituents and dose, see outer box.

Rx only

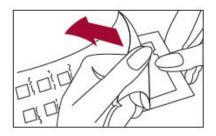
For Topical Use Only

Store between 2° and 8°C (36° and 46°F).

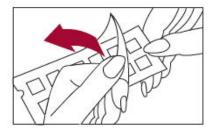
PANEL 2.3

Application Instructions

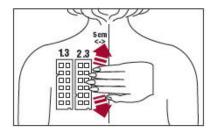
A desiccant is included in this package for stability purposes.



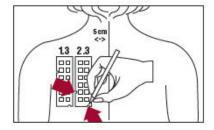
Peel open the package and remove the test panel.



Remove the protective plastic covering from the test surface of the panel. Be careful not to touch the test substances.



Position test Panel 2.3 on the patient's back. Allergen number 13 should be in the upper left corner. Avoid applying the panel on the margin of the scapula or directly over the midline of the spine. Ensure that each patch of the allergen panel is in contact with the skin by smoothing the panel outward from the center to the edge.



With a medical marking pen, indicate on the skin the location of the two notches on the panel.

Store between 2° and 8°C (36° and 46°F). Refrigeration required. Do not freeze.

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51-2012-00/2

THIN-LAYER RAPID USE EPICUTANEOUS PATCH TEST T.R.U.E. TEST ®

NDC: 67334-0457-1





Diazolidinyl Urea Hydrocortisone-17-Butyrate





Quinoline Mix

Mercaptobenzothiazole





Tixocortol-21-Pivalate

Bacitracin





Gold Sodium Thiosulfate

Parthenolide





Imidazolidinyl Urea

Disperse Blue 106





Budesonide

2-Bromo-2-Nitropropane-1, 3-diol

For further details of allergen constituents and dose, see outer box.

Rx only For Topical Use Only

Store between 2° and 8°C (36° and 46°F).

PANEL 3.3

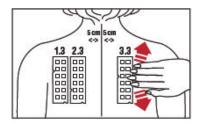
Application Instructions



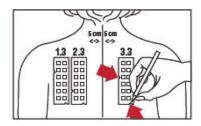
Peel open the package and remove the test panel.



Remove the protective plastic covering from the test surface of the panel. Be careful not to touch the test substances.



Position test panel 3.3 on the patient's back. Allergen number 25 should be in the upper left corner. Avoid applying the panel on the margin of the scapula or directly over the midline of the spine. Ensure that each patch of the allergen panel is in contact with the skin by smoothing the panel outward from the center to the edge.



With a medical marking pen, indicate on the skin the location of the two notches on the panel.

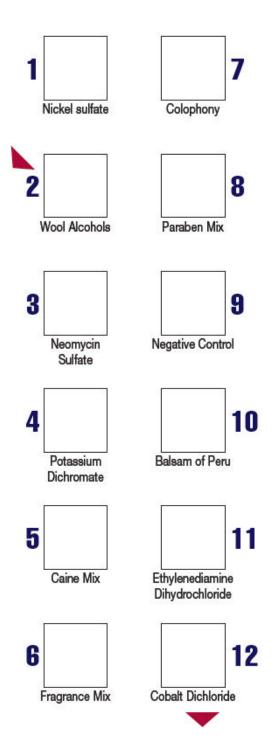
Store between 2° and 8°C (36° and 46°F). Refrigeration required. Do not freeze.

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51-2015-00/1

Panel 1.3

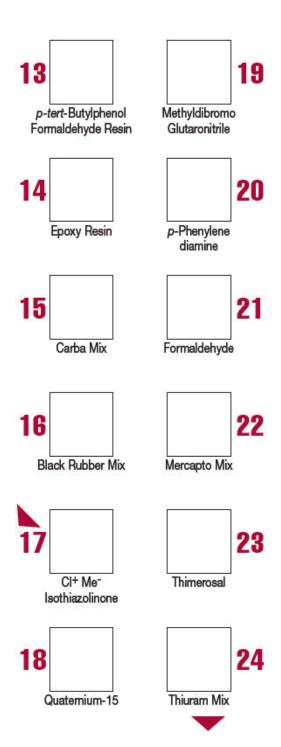


THIN-LAYER RAPID USE EPICUTANEOUS PATCH TEST T.R.U.E. TEST ®

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52-5115-00/1

Panel 2.3

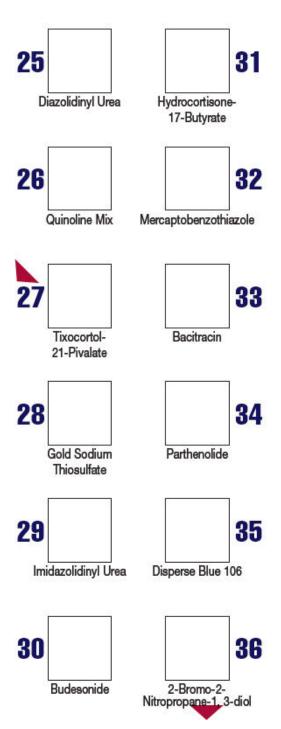


THIN-LAYER RAPID USE EPICUTANEOUS PATCH TEST T.R.U.E. TEST ®

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52-5115-00/1

Panel 3.3



THIN-LAYER RAPID USE EPICUTANEOUS PATCH TEST T.R.U.E. TEST ®

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52-5125-00/1

PRINCIPAL DISPLAY PANEL - Kit Carton

THIN-LAYER RAPID USE EPICUTANEOUS PATCH TEST

T.R.U.E. TEST®

NDC N	o:	67334-0457-1	Mcg/cm
PANEL	1	Nickel Sulfate	200
1.3	2	Wool Alcohols	1000
	3	Neomycin Sulfate	600
	4	Potassium Dichromate	54
	5	Caine Mix ^a	630
	6	Fragrance Mix ^b	500
	7	Colophony	1200
	8	Paraben Mix ^c	1000
	9	Negative Control	_
		Balsam of Peru	800
	11	Ethylenediamine Dihydrochloride	50
		Cobalt Dichloride	20
	13	<i>p-tert</i> -Butylphenol Formaldehyde Resin	45
DANFI		Epoxy Resin	50
2.3		Carba Mix ^d	250
		Black Rubber Mix ^e	75
	17	, Cl + Me ⁻ Isothiazolinone	4
	18	Quaternium-15	100
			5
	13	Methyldibromo Glutaronitrile	5
	20	<i>p</i> -Phenylenediamine	80
	21	. Formaldehyde ^f	180
	22	! Mercapto Mix ^g	75
		Thimerosal	7
		l Thiuram Mix ^h	27
		Diazolidinyl Urea	550
		Quinoline Mix ⁱ	190
		Tixocortol-21-Pivalate	3
PANEL	28	Gold Sodium Thiosulfate	75
3.3			600
		Imidazolidinyl Urea Budesonide	600
			1
	31	Hydrocortisone-17- Butyrate	20
	32	Mercaptobenzothiazole	75
	33	Bacitracin	600
	34	l Parthenolide	3
		Disperse blue 106	50
	36	2-Bromo-2- Nitropropane-1,3-diol	250
		Talci Opi Opune-1,5-dioi	

Each unit contains panel 1.3, panel 2.3 and panel 3.3. A desiccant is included in panel 2.3 package for stability purposes. Concentrations expressed in micrograms/centimeter squared. Notations a-i are located on the back panel.

Rx only For Topical Use Only Store between 2° and 8°C (36° and 46°F). Refrigeration required. Do not freeze.

5 Units

PUSH TO OPEN



T.R.U.E. TEST THIN-LAYER RAPID USE PATCH TEST

standardized allergenic kit

Product	Intorm	ation
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Product Type STANDARDIZED ALLERGENIC Item Code (Source) NDC:67334-0457

Packaging						
#	Item Code	Package Description	Marketing Start Date	Marketing End Date		
1	NDC:67334-0457-1	5 in 1 BOX				
1		1 in 1 CELLO PACK				

Quantity of Parts				
Part #	Package Quantity	Total Product Quantity		
Part 1	1 PATCH	48 h		
Part 2	1 PATCH	48 h		
Part 3	1 PATCH	48 h		

Part 1 of 3

T.R.U.E. TEST PANEL 1.3

standardized allergenic patch

Product Information

Route of Administration CUTANEOUS

Active Ingredient/Active Moiety		
Ingredient Name	Basis of Strength	Strength
NICKEL SULFATE HEXAHYDRATE (UNII: JC9WZ 4FK68) (NICKEL CATION - UNII: OIS2CXW7AM)	NICKEL SULFATE HEXAHYDRATE	36 ug in 48 h
LANOLIN ALCOHOLS (UNII: 884C3FA9HE) (LANOLIN ALCOHOLS - UNII:884C3FA9HE)	LANOLIN ALCOHOLS	810 ug in 48 h
NEOMYCIN SULFATE (UNII: 057Y626693) (NEOMYCIN - UNII:116QD7X297)	NEOMYCIN	486 ug in 48 h
POTASSIUM DICHROMATE (UNII: T4423S18FM) (DICHROMATE ION - UNII:9LKY4BFN2V)	POTASSIUM DICHROMATE	15.7 ug in 48 h
BENZOCAINE (UNII: U3RSY48JW5) (BENZOCAINE - UNII:U3RSY48JW5)	BENZOCAINE	378 ug in 48 h
TETRACAINE HYDROCHLORIDE (UNII: 5NF5D4OPCI) (TETRACAINE - UNII:0619F35CGV)	TETRACAINE HYDROCHLORIDE	66 ug in 48 h
DIBUCAINE HYDROCHLORIDE (UNII: Z97702A5DG) (DIBUCAINE - UNII:L6JW2TJG99)	DIBUCAINE HYDROCHLORIDE	66 ug in 48 h
GERANIOL (UNII: L837108USY) (GERANIOL - UNII:L837108USY)	GERANIOL	81 ug in 48 h
CINNAMALDEHYDE (UNII: SR60A3XG0F) (CINNAMALDEHYDE - UNII: SR60A3XG0F)	CINNAMALDEHYDE	41 ug in 48 h
CINNAMYL ALCOHOL (UNII: SS8YOP444F) (CINNAMYL ALCOHOL - UNII:SS8YOP444F)	CINNAMYL ALCOHOL	63 ug in 48 h
HYDROXYCITRONELLAL (UNII: 8SQ0VA4YUR) (HYDROXYCITRONELLAL - UNII:8SQ0VA4YUR)	HYDROXYCITRONELLAL	63 ug in 48 h
EUGENOL (UNII: 3T8H1794QW) (EUGENOL - UNII:3T8H1794QW)	EUGENOL	41 ug in 48 h
ISOEUGENOL (UNII: 5M0MWY797U) (ISOEUGENOL - UNII:5M0MWY797U)	ISOEUGENOL	17 ug in 48 h
.ALPHAAMYLCINNAMALDEHYDE (UNII: WC51CA3418) (.ALPHA AMYLCINNAMALDEHYDE - UNII: WC51CA3418)	.ALPHA AMYLCINNAMALDEHYDE	17 ug in 48 h
EVERNIA PRUNASTRI (UNII: O3034Q5AHK) (EVERNIA PRUNASTRI - UNII:O3034Q5AHK)	EVERNIA PRUNASTRI	81 ug in 48 h
ROSIN (UNII: 88S87KL877) (ROSIN - UNII:88S87KL877)	ROSIN	972 ug in 48 h

PROPYLPARABEN (UNII: Z8IX2SC10H) (PROPYLPARABEN - UNII:Z8IX2SC10H)	PROPYLPARABEN	162 ug in 48 h
METHYLPARABEN (UNII: A2I8C7HI9T) (METHYLPARABEN - UNII:A2I8C7HI9T)	METHYLPARABEN	162 ug in 48 h
ETHYLPARABEN (UNII: 14255EXE39) (ETHYLPARABEN - UNII:14255EXE39)	ETHYLPARABEN	162 ug in 48 h
BUTYLPARABEN (UNII: 3QPI1U3FV8) (BUTYLPARABEN - UNII:3QPI1U3FV8)	BUTYLPARABEN	162 ug in 48 h
BENZYLPARABEN (UNII: 8Y41DYV4VG) (BENZYLPARABEN - UNII:8Y41DYV4VG)	BENZYLPARABEN	162 ug in 48 h
BALSAM PERU (UNII: 8P5F881OCY) (BALSAM PERU - UNII:8P5F881OCY)	BALSAM PERU	648 ug in 48 h
ETHYLENEDIAMINE (UNII: 60V9STC53F) (ETHYLENEDIAMINE - UNII:60V9STC53F)	ETHYLENEDIAMINE	18 ug in 48 h
COBALTOUS CHLORIDE HEXAHYDRATE (UNII: 17AVG63ZBC) (COBALTOUS CATION - UNII:AI1MR454XG)	COBALTOUS CHLORIDE HEXAHYDRATE	4 ug in 48 h

Inactive Ingredients		
Ingredient Name	Strength	
HYDROXYPROPYL CELLULOSE (1600000 WAMW) (UNII: RFW2ET671P)		
POVIDONE, UNSPECIFIED (UNII: FZ 989GH94E)		
BETADEX (UNII: JV039JZZ3A)		
BUTYLATED HYDROXYANISOLE (UNII: REK4960K2U)		
BUTYLATED HYDROXYTOLUENE (UNII: 1P9D0Z171K)		

Pa	Packaging				
#	# Item Package Description		Marketing Start Date	Marketing End Date	
1		1 in 1 POUCH			
1		48 h in 1 PATCH; Type 0: Not a Combination Product			

Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
BLA	BLA103738	06/01/2013		

Part 2 of 3

T.R.U.E. TEST PANEL 2.3

standardized allergenic patch

Product Information

Route of Administration CUTANEOUS

Active Ingredient/Active Moiety			
Ingredient Name Basis of Strength Stren			
DIPENTAMETHYLENETHIURAM DISULFIDE (UNII: CR113982E5) (DIPENTAMETHYLENETHIURAM DISULFIDE - UNII: CR113982E5)	DIPENTAMETHYLENETHIURAM DISULFIDE	5.5 ug in 48 h	
P-TERT-BUTYLPHENOL-FORMALDEHYDE RESIN (LOW MOLECULAR WEIGHT) (UNII: Q51LPW21CH) (P-TERT-BUTYLPHENOL-FORMALDEHYDE RESIN (LOW MOLECULAR WEIGHT) - UNII:Q51LPW21CH)	P-TERT-BUTYLPHENOL-FORMALDEHYDE RESIN (LOW MOLECULAR WEIGHT)	36 ug in 48 h	

BISPHENOL A DIGLYCIDYL ETHER	32 ug in 48 h
DIPHENYLGUANIDINE	68 ug in 48 h
DITIOCARB ZINC	68 ug in 48 h
ZINC DIBUTYLDITHIOCARBAMATE	68 ug in 48 h
N-ISOPROPYL-N'-PHENYL-1,4- PHENYLENEDIAMINE	10 ug in 48 h
N-CYCLOHEXYL-N'-PHENYL-P- PHENYLENEDIAMINE	25 ug in 48 h
N,N'-DIPHENYL-P-PHENYLENEDIAMINE	25 ug in 48 h
METHYLCHLOROIS OTHIAZ OLINONE	3 ug in 48 h
QUATERNIUM-15	81 ug in 48 h
METHYLDIBROMO GLUTARONITRILE	4 ug in 48 h
P-PHENYLENEDIAMINE	65 ug in 48 h
FORMALDEHYDE	146 ug in 48 h
N-CYCLOHEXYL-2- BENZ OTHIAZ OSULFENAMIDE	20 ug in 48 h
2,2'-DITHIOBISBENZOTHIAZOLE	20 ug in 48 h
MORPHOLINYLMERCAPTOBENZ OTHIAZ OLE	20 ug in 48 h
THIMEROSAL	6 ug in 48 h
TETRAMETHYLTHIURAM MONOSULFIDE	5.5 ug in 48 h
THIRAM	5.5 ug in 48 h
DISULFIRAM	5.5 ug in 48 h
	DIPHENYLGUANIDINE DITIOCARB ZINC ZINC DIBUTYLDITHIOCARBAMATE N-ISOPROPYL-N'-PHENYL-1,4- PHENYLENEDIAMINE N-CYCLOHEXYL-N'-PHENYL-P- PHENYLENEDIAMINE N,N'-DIPHENYL-P-PHENYLENEDIAMINE METHYLCHLOROISOTHIAZOLINONE QUATERNIUM-15 METHYLDIBROMO GLUTARONITRILE P-PHENYLENEDIAMINE FORMALDEHYDE N-CYCLOHEXYL-2- BENZOTHIAZOSULFENAMIDE 2,2'-DITHIOBISBENZOTHIAZOLE THIMEROSAL TETRAMETHYLTHIURAM MONOSULFIDE

Inactive Ingredients		
Ingredient Name	Strength	
HYDROXYPROPYL CELLULOSE (1600000 WAMW) (UNII: RFW2ET671P)		
POVIDONE, UNSPECIFIED (UNII: FZ 989GH94E)		
SODIUM BICARBONATE (UNII: 8MDF5V39QO)		
SODIUM CARBONATE (UNII: 45P3261C7T)		

Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1		1 in 1 POUCH		
1		48 h in 1 PATCH; Type 0: Not a Combination Product		

Marketing Information			
Marketing Application Number or Monograph Marketing Start Marketing End Category Citation Date Date			
BLA	BLA103738	06/01/2013	

Part 3 of 3

T.R.U.E. TEST PANEL 3.3

standardized allergenic patch

Product Information

Route of Administration CUTANEOUS

Active Ingredient/Active Moiety				
Ingredient Name	Basis of Strength	Strength		
DIAZOLIDINYL UREA (UNII: H5RIZ3MPW4) (DIAZOLIDINYL UREA - UNII: H5RIZ3MPW4)	DIAZ OLIDINYL UREA	446 ug in 48 h		
CLIOQUINOL (UNII: 7BHQ856EJ5) (CLIOQUINOL - UNII:7BHQ856EJ5)	CLIOQUINOL	77 ug in 48 h		
CHLORQUINALDOL (UNII: D6VHC87LLS) (CHLORQUINALDOL - UNII: D6VHC87LLS)	CHLORQUINALDOL	77 ug in 48 h		
TIXOCORTOL PIVALATE (UNII: 6K28E35M3B) (TIXOCORTOL - UNII: Z X3KEK657Z)	TIXOCORTOL PIVALATE	2 ug in 48 h		
GOLD SODIUM THIOSULFATE (UNII: CKS1YQ9W1J) (SODIUM CATION - UNII:LYR4M0NH37)	GOLD SODIUM THIOSULFATE	23 ug in 48 h		
IMIDUREA (UNII: M629807ATL) (IMIDUREA - UNII:M629807ATL)	IMIDUREA	486 ug in 48 h		
BUDESONIDE (UNII: Q3OKS62Q6X) (BUDESONIDE - UNII:Q3OKS62Q6X)	BUDESONIDE	0.8 ug in 48 h		
HYDROCORTISONE BUTYRATE (UNII: 05RMF7YPWN) (HYDROCORTISONE - UNII: W4X0X7BPJ)	HYDROCORTISONE BUTYRATE	16 ug in 48 h		
2-MERCAPTOBENZOTHIAZOLE (UNII: 5RLR54Z 22K) (2-MERCAPTOBENZOTHIAZOLE - UNII:5RLR54Z 22K)	2- MERCAPTOBENZ OTHIAZ OLE	61 ug in 48 h		
BACITRACIN (UNII: 58H6RWO52I) (BACITRACIN - UNII:58H6RWO52I)	BACITRACIN	486 ug in 48 h		
PARTHENOLIDE (UNII: 2RDB26I5ZB) (PARTHENOLIDE - UNII:2RDB26I5ZB)	PARTHENOLIDE	2 ug in 48 h		
DISPERSE BLUE 106 (UNII: C48O4QYD6N) (DISPERSE BLUE 106 - UNII:C48O4QYD6N)	DISPERSE BLUE 106	41 ug in 48 h		
BRONOPOL (UNII: 6PU1E16C9W) (BRONOPOL - UNII:6PU1E16C9W)	BRONOPOL	203 ug in 48 h		

Inactive Ingredients				
Ingredient Name	Strength			
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)				
HYDROXYPROPYL CELLULOSE (1600000 WAMW) (UNII: RFW2ET671P)				

F	Packaging					
#	tem Code	Package Description	Marketing Start Date	Marketing End Date		
1		1 in 1 POUCH				
1		48 h in 1 PATCH; Type 0: Not a Combination Product				

Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
BLA	BLA103738	06/01/2013		

Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
BLA	BLA103738	03/01/2012		

Labeler - SmartPractice Denmark ApS (306216144)

Revised: 11/2022 SmartPractice Denmark ApS